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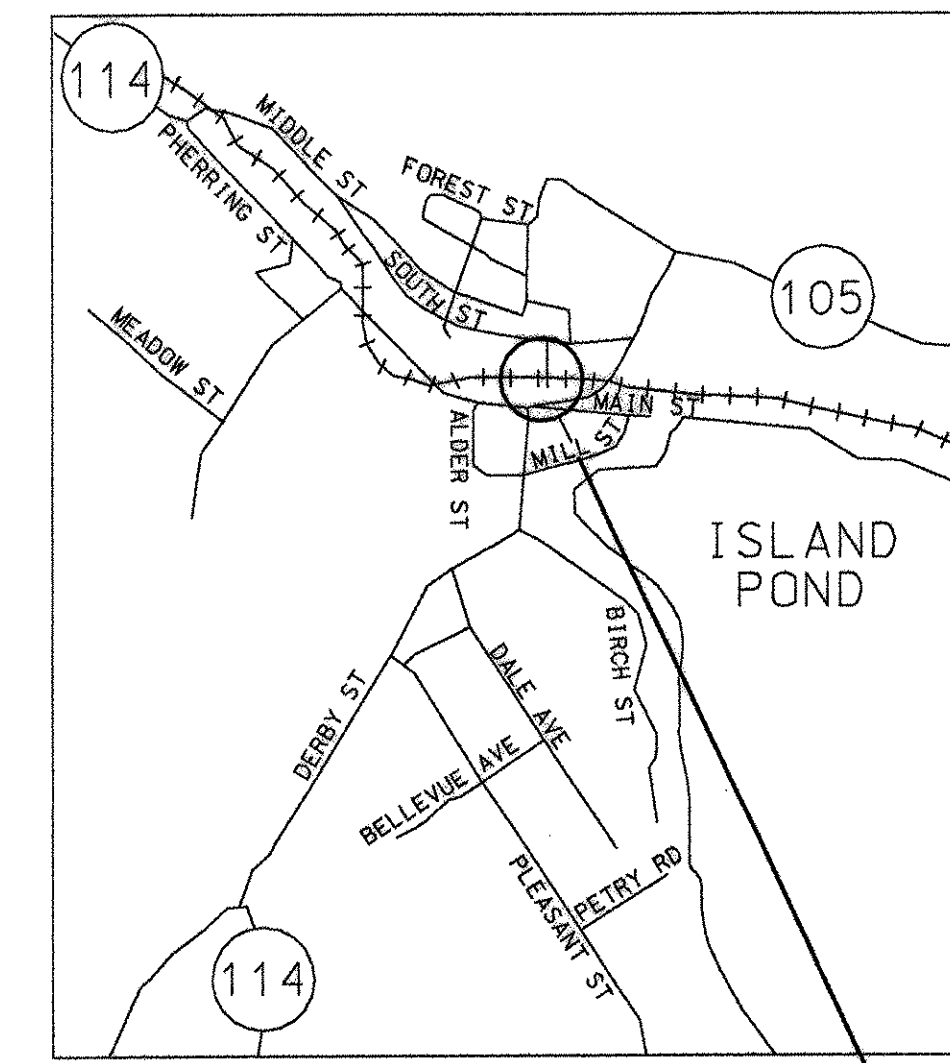
**LIST OF STANDARDS**

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- T-2 06-01-94
- E-17511-17-93
- F2 06-01-94

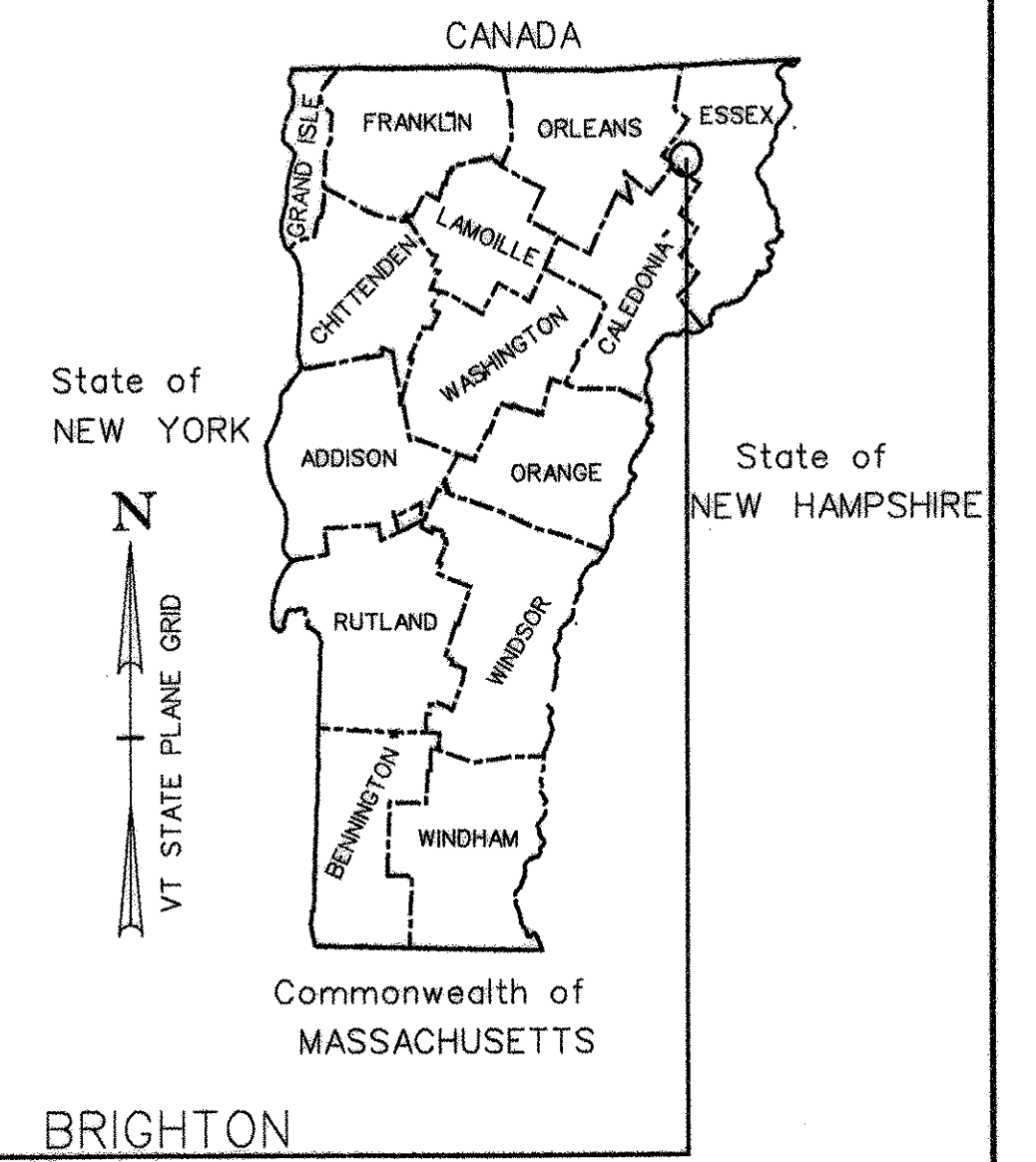
**PROPOSED IMPROVEMENT  
BRIDGE PROJECT  
RECORD DRAWINGS  
OCTOBER 2003 ▲**

**TOWN OF BRIGHTON  
COUNTY OF ESSEX  
BRIGHTON COVERED PEDESTRAIN BRIDGE**

BRIGHTON STP BIKE (14)S  
HTA PROJECT NO. 906801



LOCATION MAP

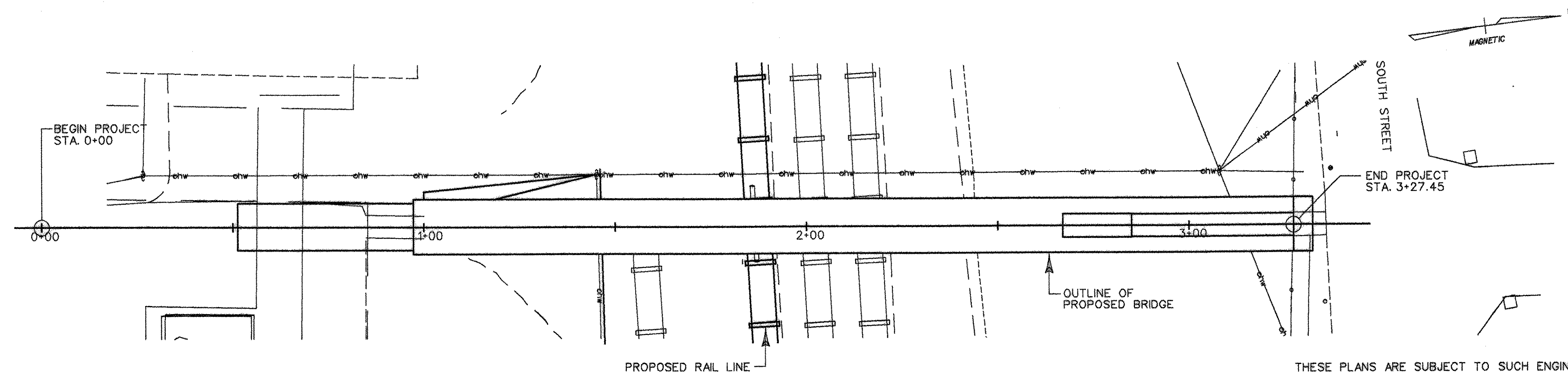


BRIGHTON  
STP BIKE (14)S

PROJECT LOCATION: FROM A POINT OPPOSITE THE INTERSECTION OF SOUTH STREET AND MOUNTAIN STREET, TO A POINT ON CROSS STREET IN THE VILLAGE OF ISLAND POND.

PROJECT DESCRIPTION: CONSTRUCTION OF A NEW PEDESTRIAN TIMBER COVERED BRIDGE, APPROACH STAIRS, TIMBER PIERS AND FOUNDATIONS.

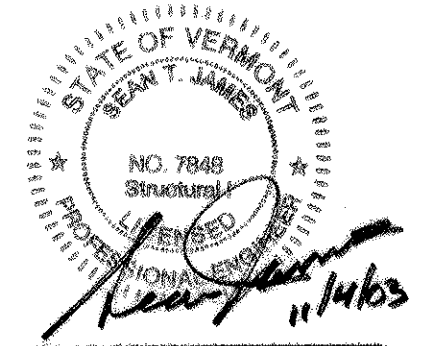
LENGTH OF STRUCTURE: 230.16 FEET  
LENGTH OF ROADWAY: 139.00 FEET  
LENGTH OF PROJECT: 369.16 FEET



**PLAN**  
SCALE 1" = 20'-0"

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROJECT DEVELOPMENT.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2001, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JANUARY 4, 2001 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.



**HTA** consulting engineers  
150 Dow Street - Manchester, NH 03101-1227  
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THE "RECORD COPY" NOTATIONS WITHIN THE HTA DRAWINGS ARE SHOWN FOR GENERAL INFORMATION PURPOSES ONLY. USERS ARE CAUTIONED TO FIELD VERIFY THE AS-BUILT DATA. ▲

RECORD COPY REVISIONS DR BY JDG CHK BY STJ

FUNDING ASSISTANCE HAS BEEN PROVIDED BY VTRANS AND FHWA

PROJECT NAME : BRIGHTON PEDESTRIAN BRIDGE  
PROJECT NUMBER : STP BIKE (14)S

SHEET 1 OF 14 SHEETS

SURVEYED BY : DANIELS SURVEY  
SURVEYED DATE : JUNE 1995  
DATUM  
VERTICAL USGC DATUM (NAVD88)  
HORIZONTAL ASSUMED

CONVENTIONAL SYMBOLS	
COUNTY LINE	
TOWN LINE	
LIMITS OF ACCESS	
POINT OF ACCESS	
FENCE LINE	
STONE WALL	
TRAVELED WAY	
GUARD RAIL	
RAILROAD	
SURVEY LINE	
CULVERT	
POWER POLE	
TELEPHONE POLE	
TREES	
CONTROL OF ACCESS	
PROPERTY LINE	
R.O.W. TAKING LINE	
SLOPE RIGHTS	
TOP OF CUT	
TOE OF SLOPE	

**GENERAL NOTES**

- G1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION ADOPTED 2001, AND THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 16TH EDITION, DATED 1996, AND THEIR LATEST REVISIONS.
- G2. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS AND COORDINATION OF OTHER TRADES.
- G3. THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CARE OF ADJACENT PROPERTIES DURING CONSTRUCTION AND COMPLIANCE WITH STATE AND FEDERAL REGULATIONS REGARDING SITE SAFETY SHALL SOLELY BE THE CONTRACTORS RESPONSIBILITY.
- G4. ALL DIMENSIONS, ELEVATIONS AND CONDITIONS MUST BE VERIFIED BY THE GENERAL CONTRACTOR OR RESPONSIBLE TRADES PRIOR TO COMMENCING WITH THE WORK, FABRICATION OR ORDERING MATERIALS. DO NOT SCALE DRAWINGS, USE DIMENSIONS SHOWN.
- G5. ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND AS-BUILT CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY BEFORE PROCEEDING WITH THE WORK.
- G6. THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
- G7. ALL APPLICABLE UTILITY DEPARTMENTS AND COMPANIES SHALL BE NOTIFIED BEFORE EXCAVATION IS STARTED. UTILITIES WITHIN 50 FEET OF AN EXCAVATION SHALL BE MARKED IN THE FIELD
- G8. HOYLE, TANNER & ASSOCIATES, INC. WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS THAT ARISE DUE TO THE FAILURE OF THE CONTRACTOR:
  - TO FOLLOW THESE DRAWINGS AND SPECIFICATIONS AND THE DESIGN INTENT THEY CONVEY
  - TO NOTIFY HTA OF ANY DISCREPANCIES, ERRORS, OMISSIONS OR CONFLICTS AND OBTAIN THEIR GUIDANCE TO RESOLVE.
- G9. SPECIFICATIONS:
  - THE BOCA NATIONAL BUILDING CODE 1999
  - STATE OF VERMONT AGENCY OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION 2001
  - AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 16TH EDITION, DATED 1996 PLUS INTERIMS THROUGH 2002
  - AITC TIMBER CONSTRUCTION MANUAL, FOURTH EDITION
  - 1997 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION AND SUPPLEMENT
- G10. IN THE PREPARATION OF THESE DRAWINGS, HTA HAS RELIED UPON INFORMATION OBTAINED FROM THE FOLLOWING REPORTS, DRAWINGS, TESTS OR OTHER DOCUMENTATION AS FOLLOWS:
  1. FINAL SCOPING REPORT: BRIGHTON PEDESTRIAN BRIDGE; TOWN OF BRIGHTON, VERMONT; SUBMITTED BY DUFRESNE-HENRY, INC.; JANUARY 1999
  2. SURVEY BY DANIELS SURVEY, JUNE 1995

THIS INFORMATION IS AVAILABLE FOR REVIEW DURING NORMAL BUSINESS HOURS AT THE FOLLOWING LOCATION:

BRIGHTON TOWN HALL  
 MAIN STREET P.O. BOX 377  
 ISLAND POND, VT 05846  
 TEL. (802) 828-3975

**FOUNDATION TRADE NOTES**

- F1. THE BOTTOM ELEVATION OF FOOTINGS SHALL BE A MINIMUM OF 5'-0" BELOW OUTSIDE GRADE. LOWER FOOTINGS AS REQUIRED TO REACH GOOD BEARING.
- F2. THE BOTTOM OF EXCAVATIONS SHALL BE THOROUGHLY COMPACTED TO 95% OF MODIFIED PROCTOR PRIOR TO FORMING FOOTINGS.
- F3. ALL CONCRETE SHALL BE PLACED IN DRY EXCAVATIONS. PUMP AWAY WATER AS REQUIRED.

**STRUCTURAL STEEL TRADE NOTES**

- S1. ALL STRUCTURAL STEEL, INCLUDING VERTICAL RODS, LATERAL BRACING RODS AND MISCELLANEOUS STEEL SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM AASHTO 232M/M232, ASTM A153/A153M (FY-36 KS) EXCEPT FOR PLATES WHICH SHALL BE GALVANIZED PER AASHTO M 11M/M11 AND PAID FOR UNDER ITEM 506.75. THE USE OF UNGALVANIZED STEEL COMPONENTS WILL NOT BE ALLOWED.
- S2. THE CONTRACTOR SHALL SUBMIT CUT SHEETS FOR ALL CONNECTION HARDWARE TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING.

**WOOD NOTES**

- W1. ALL WOOD CONSTRUCTION SHALL COMPLY WITH THE LATEST AASHTO SPECIFICATIONS, THE NATIONAL DESIGN SPECIFICATIONS (NDS), SUPPLEMENT FOR WOOD CONSTRUCTION AND THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC) SPECIFICATIONS.
- W2. MOISTURE CONTENT OF WOOD USED SHALL NOT EXCEED 16% AT THE TIME OF USE EXCEPT FOR MEMBERS 5"x5" AND LARGER WHICH SHALL NOT EXCEED 19%. THE MOISTURE CONTENT OF THE WHITE OAK DECKING MAY BE GREEN AT THE TIME OF INSTALLATION.
- W3. EACH PIECE OF WOOD OR TIMBER SHALL BE GRADED BY A RECOGNIZED LUMBER GRADING AGENCY. A CERTIFICATE OF COMPLIANCE SHALL BE SUBMITTED FOR ALL WOOD.
- W4. ALL NUTS, BOLTS LAG SCREWS, PREMANUFACTURED STEEL CONNECTIONS, WASHERS, SPIKES AND SCREWS SHALL CONFORM TO ASTM 307, AND BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM AASHTO 232M/M232, A153/A153M AND PAID FOR UNDER ITEM 506.75.
- W5. ALL WOOD SHALL BE SOUTHERN PINE No. 1 OR BETTER WHERE THE SPECIES IS NOT NOTED.
- W6. ALL JOB SITE FABRICATION CUTS AND BORINGS OF WOOD TO BE TREATED SHALL HAVE TWO COATS OF AN APPROVED PRESERVATIVE LIBERALLY APPLIED. THE PRESERVATIVE SHALL BE COMPATIBLE WITH THE PRESSURE TREATMENT PRESERVATIVE USED IN ACCORDANCE WITH AWPA STANDARD M4.

**CONCRETE AND REINFORCING STEEL TRADE NOTES**

- C1. ALL REINFORCING STEEL SHALL BE DETAILED AND FABRICATED USING PROCEDURES AND TOLERANCES IN ACCORDANCE WITH APPLICABLE PUBLICATIONS OF THE "CONCRETE REINFORCING STEEL INSTITUTE" (CRSI).
- C2. REINFORCING PLACEMENT TOLERANCES SHALL BE:
 

SPACING	+/- 1"
CLEARANCE	+/- 1/4"
- C3. REINFORCING COVER SHALL BE:
 

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	MINIMUM COVER, IN.	3
CONCRETE EXPOSED TO EARTH OR WEATHER: *6 THROUGH *18 BARS *5 BARS, W31 OR D31 WIRE, AND SMALLER		2 1/2
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:		
SLABS, WALLS, JOISTS: *14 AND *18 BARS *11 BARS AND SMALLER		1/2 3/4
- C4. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2" BY 1/2".
- C5. WATER REPELLENT SHALL BE APPLIED TO ALL NEW AND EXISTING EXPOSED CONCRETE SURFACES.

**MINIMUM ALLOWABLE WOOD STRESSES**

SPECIES	SIZE	GRADE	F <sub>b</sub> (PSI)	F <sub>t</sub> (PSI)	F <sub>v</sub> (PSI)	F <sub>c</sub> (PSI)	E (10 <sup>6</sup> PSI)
SOUTHERN PINE	2"-4" THICK, 2"-4" WIDE	No. 1	1850	1050	100	1850	1.7
SOUTHERN PINE	2"-4" THICK, 10" WIDE	No. 1	1300	725	90	1600	1.7
SOUTHERN PINE	5"x5" & LARGER	DS65	2000	1300	115	1500	1.8
SOUTHERN PINE GLULAM	X - X AXIS	A.I.T.C COMB. No. 24F-V5	2400	1150	240	1700	1.7
WHITE OAK	2"-4" THICK, 2" & WIDER	No. 1	875	500	110	900	1.1

**TIMBER MATERIALS LIST**

COMPONENT	PROPOSED (ACTUAL SIZE IN INCHES)	PROPOSED SPECIES & GRADE
BEARING BLOCK	VARIES	BLACK LOCUST No. 1
FLOOR BEAMS	3 1/2 x 9 1/4	SOUTHERN PINE No. 1
FLOOR DECKING	3" THICK BRIDGE	WHITE OAK No. 1
	2 1/2" THICK STAIRS TREADS	
KNEE BRACING	3 1/2 x 3 1/2	SOUTHERN PINE No. 1
PIER COLUMN	12 x 12	P.T. SOUTHERN PINE No. 1
PIER CAP BEAM	12 x 15	P.T. SOUTHERN PINE No. 1
PIER DIAGONAL	4 x 8	P.T. SOUTHERN PINE No. 1
PURLINS	1 1/2 x 3 1/2	SOUTHERN PINE No. 1
RAFTERS	3 1/2 x 9 1/4	SOUTHERN PINE No. 1
RAFTER SUPPORT BEAM	5 1/2 x 11 1/2	SOUTHERN PINE No. 1
RAFTER SUPPORT COLUMN	5 1/2 x 5 1/2	SOUTHERN PINE No. 1
SIDING	1" THICK	EASTERN WHITE PINE No. 1
STAIR STRINGERS	5 x 15 1/8	SOUTHERN PINE A.I.T.C. GLULAM COMB. 24F-V5
TOP CROSS BEAM	5 1/2 x 9 1/2; 7 1/2 x 9 1/2 (TRUSS ONLY)	SOUTHERN PINE No. 1
TOP LATERAL BRACING	4 1/2 x 4 1/2	SOUTHERN PINE No. 1
TRUSS CHORD	8 1/4 x 14 1/4	SOUTHERN PINE A.I.T.C. GLULAM COMB. 24F-V5
TRUSS DIAGONALS	6x10, 6x6, 5x8	SOUTHERN PINE No. 1

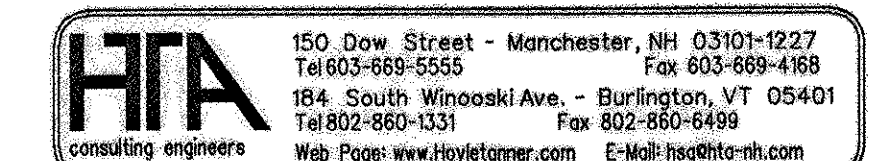
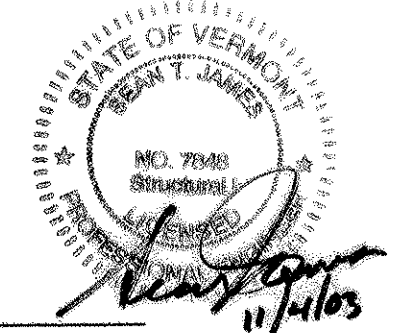
NOTE: P.T. = PRESSURE TREATED

**PROPOSED STRUCTURE:**

STRUCTURE TYPE: SINGLE SPAN TIMBER COVERED BRIDGE WITH STAIRS  
 CLEAR SPAN: ~~116 FT (35.062 M)~~ **104.09 FT (31.727 M)**  
 VERTICAL CLEARANCE ABOVE RAILROAD TRACKS: 23'-0" (7.010M)  
 WATERWAY OF FULL OPENING: N/A

**DESIGN CRITERIA:**

1. DESIGN LIVE LOAD AASHTO 85 PSF (PEDESTRIAN)
2. DESIGN SNOW LOAD P<sub>g</sub> = 60 PSF, P<sub>f</sub> = 36 PSF (ROOF APPLIED)
2. DESIGN SPAN 112 FEET
3. ALLOWABLE LOAD FOR SPREAD FOOTINGS ON SOIL 3500 PSF (ASSUMED) ON LEDGE N/A
4. ALLOWABLE LOAD FOR PILING N/A TYPE N/A ESTIMATED LENGTH N/A
5. STRUCTURAL STEEL AASHTO GRADE N/A
6. REINFORCING STEEL GRADE 60
7. CONCRETE CLASS A f<sub>c</sub>: 4000 PSI  
 CONCRETE CLASS B f<sub>c</sub>: 3500 PSI  
 SILICA-FUME CONCRETE f<sub>c</sub>: 5000 PSI



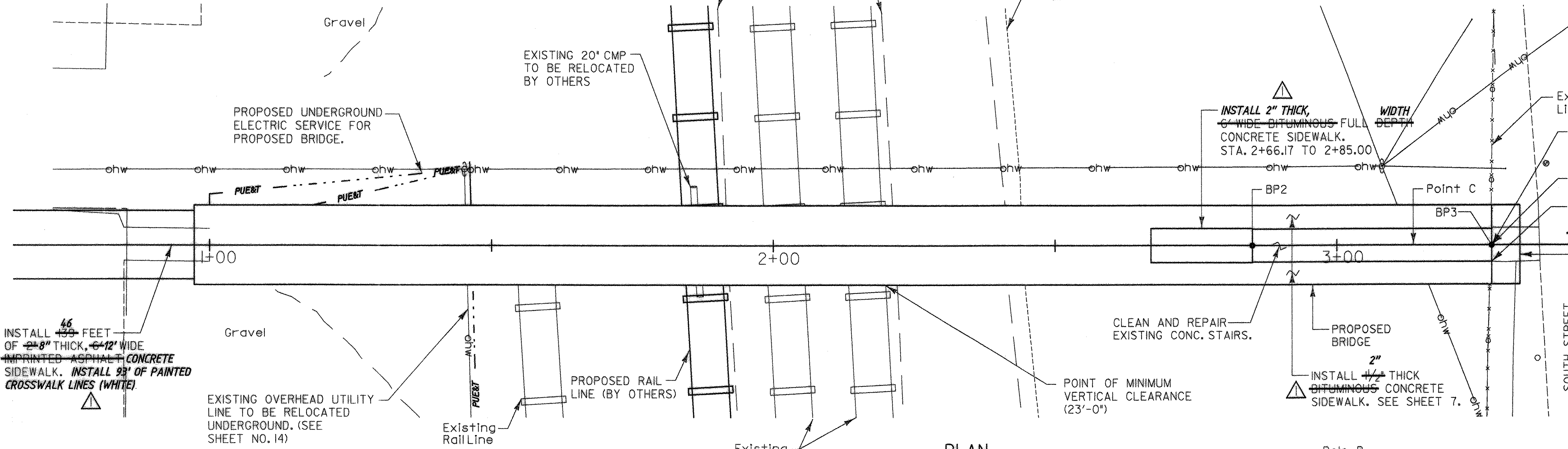
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Town Of	BRIGHTON	Bridge No.	
Highway No.		Log Sta.	
		Surv. Sta.	
<b>BRIGHTON PEDESTRIAN BRIDGE</b>			
<b>PRELIMINARY INFORMATION &amp; NOTES</b>			
Designed By	S.T. JAMES	Drawn By	J.D. GEER
Checked By	R.H. DURFEE	Date	MAY. 2002
PROJECT	BRIGHTON	Bridge Design Supervisor	
		Date	
I.G.C. Info.	Z9068Det.dgn	PROJECT NO.	STP BIKE (14)S
Bridge Sheet No.	2	Sheet 2 of	14

ITEM NO.	ITEM	UNIT	SUPERSTRUCTURE, STAIRS AND PIERS	FULL E&C ITEMS	SUBSTRUCTURE/ROADWAY	TOTAL	FINAL	ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
<b>QUANTITY BREAKDOWN</b>																									
<b>ABUTMENT NO. 1</b>																									
201.10	CLEARING AND GRUBBING	LS			1	1		5	59	5	13'-6"	IA501	STR												
203.16	SOLID ROCK EXCAVATION	CY			5	5		6	30	5	12'-6"	IA502	STR												
203.28	EXCAVATION OF SURFACES AND PAVEMENTS	CY			10	10		7	15	6	7'-3"	IA603	IT	4'-6"	2'-9"										
204.20	TRENCH EXCAVATION OF EARTH	CY			40	40		8	15	6	7'-3"	IA604	IT	4'-6"	2'-9"										
204.25	STRUCTURE EXCAVATION	CY			370	370		9	15	6	12'-6"	IA605	STR												
204.30	GRANULAR BACKFILL FOR STRUCTURES	CY			300	300		10	15	6	14'-11"	IA606	STR												
501.25	CONCRETE, CLASS B	CY			160	160		11	15	5	4'-4"	IA507	IT	2'-2"	2'-2"										
502.10	SHORING STRUCTURES (MOD.)	LS			1	1		12	4	14	7'-0"	IA1401	STR												
506.75	STRUCTURAL STEEL	LS			1	1		13																	
507.15	REINFORCING STEEL	LB	10640		10640			14																	
513.30	STRUCTURAL PAINTING, FIELD APPLIED (MOD.)	LS			1	1		15																	
513.36	CONTAINMENT & ENVIRONMENTAL PROTECTION, FIELD	LS			1	1		16																	
514.10	WATER REPELLENT	GAL			25-0	25-0		17																	
522.20	STRUCTURAL LUMBER AND TIMBER - UNTREATED	LS			1	1		18	20	5	19'-6"	W501	STR												
522.25	STRUCTURAL LUMBER AND TIMBER - TREATED (PIERS)	LS			1	1		19	38	5	17'-6"	W502	STR												
522.30	NON-STRUCTURAL LUMBER - UNTREATED (SIDING & SUPPORTS)	LS			1	1		20	26	5	17'-6"	W503	STR												
522.40	STRUCTURAL GLUED LAMINATED TIMBER	LS			1	1		19	19	6	6'-9"	W603	IT	4'-0"	2'-9"										
580.14	REPAIR OF CONCRETE SUBSTRUCTURE SURFACE CLASS II	CF			10-0.53	10-0.53		21	19	6	6'-9"	W604	IT	4'-0"	2'-9"										
580.17	RAPID SETTING CONCRETE REPAIR MATERIAL	CF			10-0.53	10-0.53		22	38	6	12'-6"	W605	STR												
613.11	STONE FILL, TYPE II	CY			50	50		23																	
618.15	BITUMINOUS CONCRETE SIDEWALK (MOD.) (IMPRINTED ASPHALT)	TON			25-0	25-0		24																	
620.50	REMOVING AND RESETTING FENCE	LF			12	12		25																	
624.25	DUCTS, DIRECT BURIAL (PVC)	LF			140	140		26																	
630.10	UNIFORMED TRAFFIC OFFICERS	HR			20-0	20-0		27																	
630.15	FLAGGERS	HR			10-0.69	10-0.69		28																	
631.16	TESTING EQUIPMENT - CONCRETE	LS			1	1		29																	
635.10	MOBILIZATION	LS			1	1		30																	
636.15	UTILITY SYSTEM (MOD)	LS			1	1		31																	
649.51	GEOTEXTILE FOR SILT FENCE	SY			25-03	25-03		32																	
651.15	SEED	LB			5	5		33																	
651.18	FERTILIZER	LB			5	5		34																	
651.20	AGRICULTURAL LIMESTONE	TON			0.025	0.025		35																	
651.25	HAY MULCH	TON			0.05	0.05		36																	
651.26	HAY BALES FOR EROSION CONTROL	EACH			50-62	50-62		37																	
651.35	TOPSOIL	CY			20-24	20-24		38																	
665.18	METAL ROOFING	LS			1	1		39																	
679.15	STREET LIGHTING (MOD.)	LS			1	1		40																	
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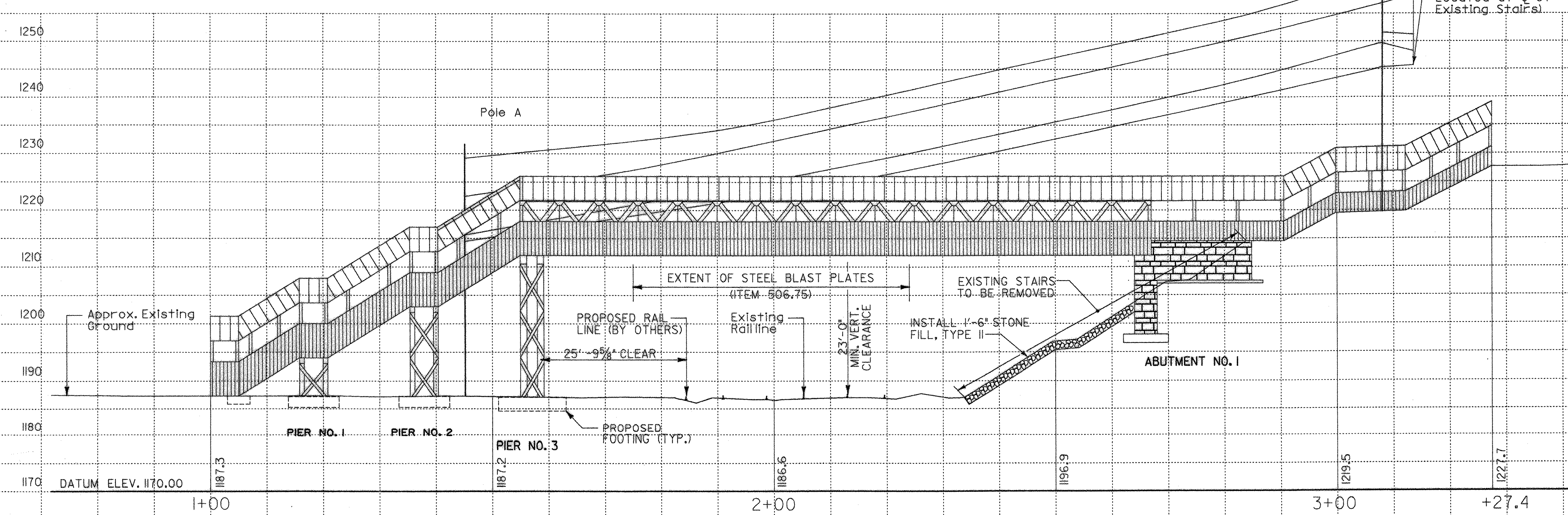


- LEGEND**
- EXISTING STONE RETAINING WALL
  - ohw EXISTING OVERHEAD UTILITY LINES
  - PUE&T PROPOSED UNDERGROUND ELECTRIC & TELEPHONE
  - EXISTING CHAIN LINK FENCE



- PLAN NOTES**
1. VERTICAL ELEVATIONS BASED ON USGS DATUM (NAVD88). A USGS DISK WITH ELEVATION 363.21M IS LOCATED AT NORTHEAST CORNER OF THE STONE AND BRICK DEPOT BUILDING.
  2. MINIMAL VERTICAL CLEARANCE ASSUMES 0° OF CAMBER IN THE TRUSS.
  3. THE PROPOSED ALIGNMENT SHALL BE ESTABLISHED BASED ON THE FOLLOWING POINTS:
    - BPI STA. 0+46.53 RT. 50.49 TO USGS DISK
    - BP2 STA. 2+85.00 CENTER OF EXISTING CONCRETE STAIRS AT END OF PROPOSED WINGWALLS.
    - BP3 STA. 3+27.45 CENTER OF EXISTING CONCRETE STAIRS AT INTERSECTION WITH BIT. CONC. SIDEWALK.
  4. PROVIDE SILT FENCE AS REQUIRED TO PROTECT THE RAILROAD TRACKS FROM SILTATION.

**PLAN**  
SCALE 1" = 10'-0"

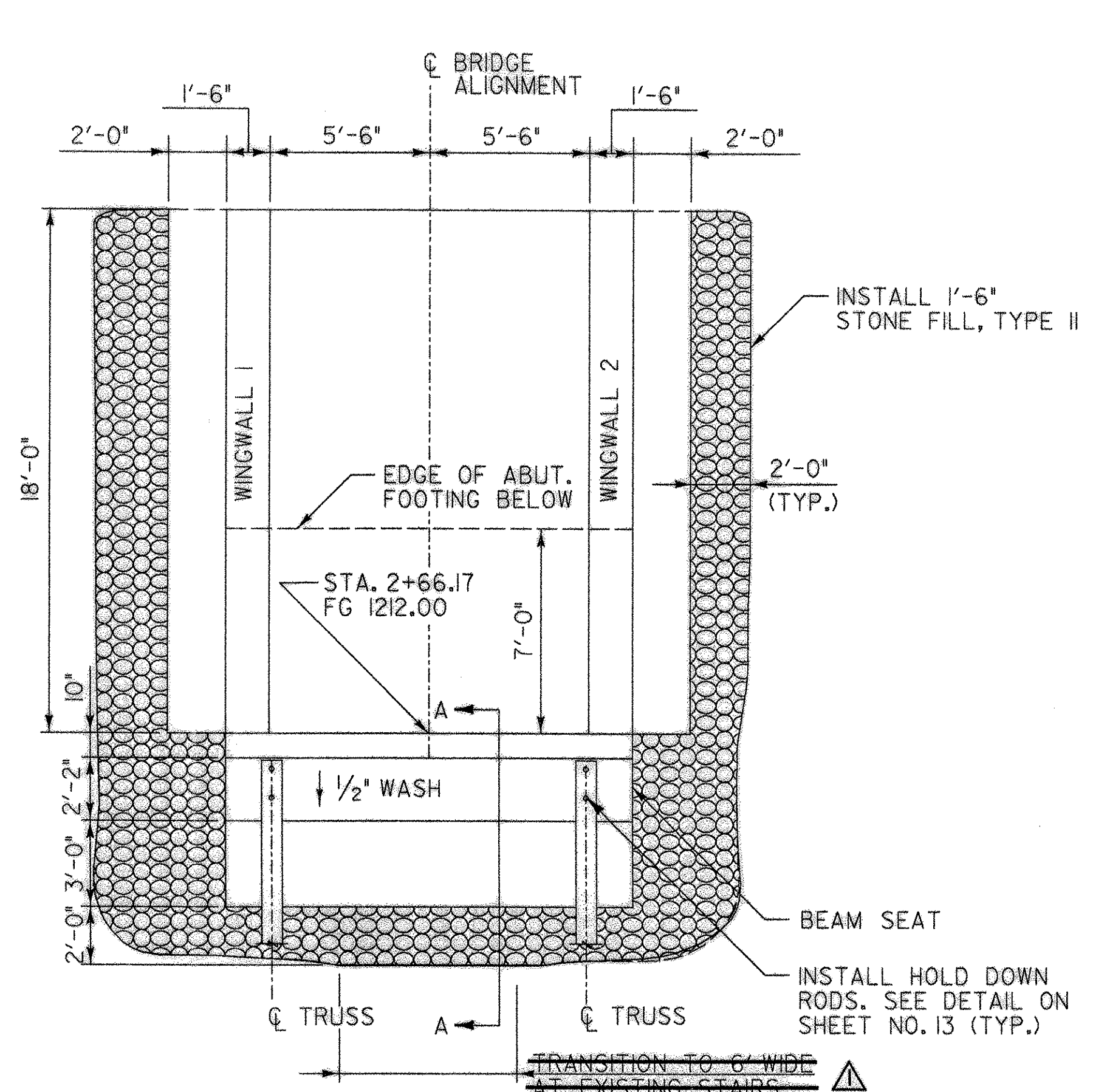


**PROFILE**  
SCALE 1" = 10'-0"

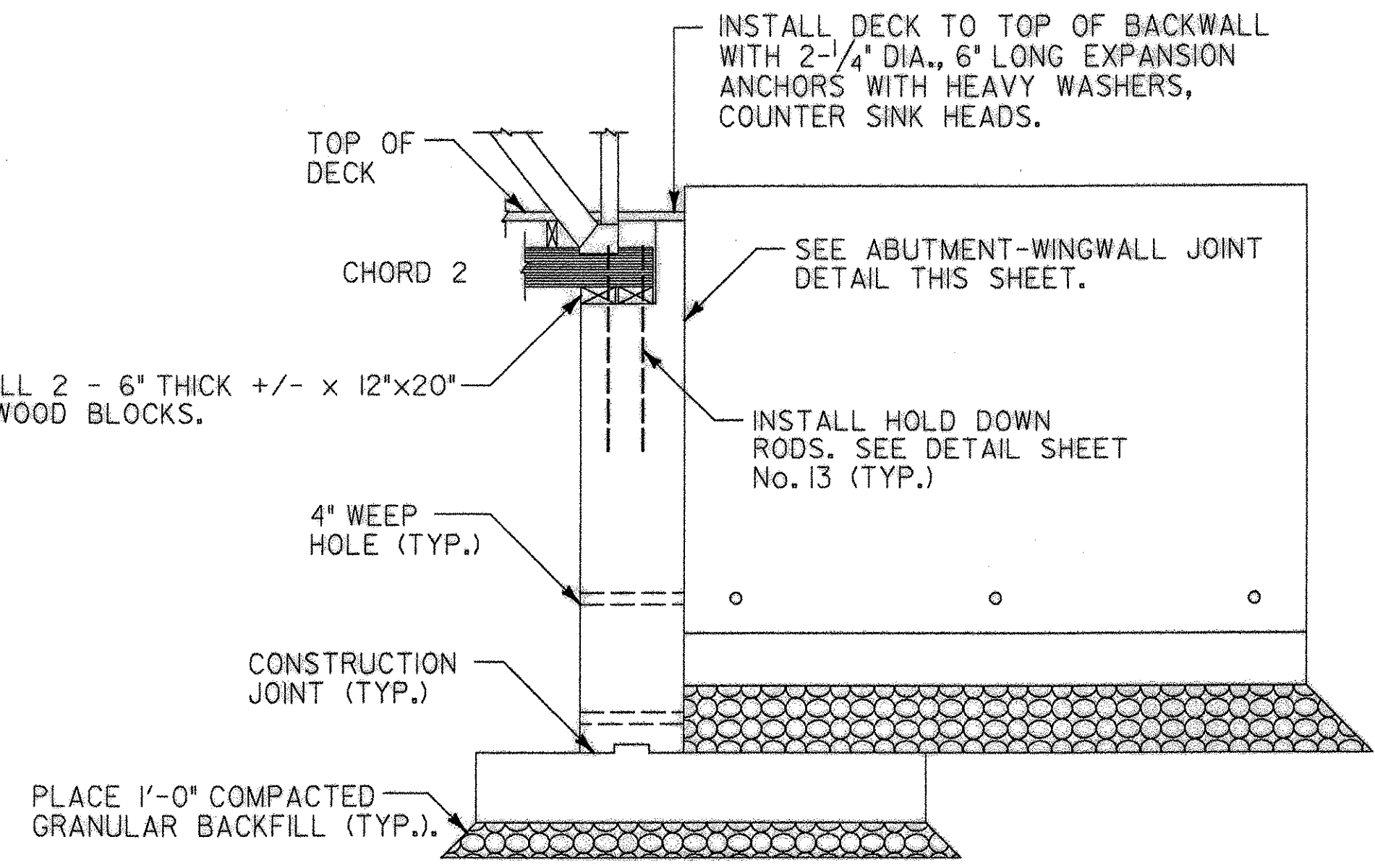
**HTA** CONSULTING ENGINEERS  
150 Dow Street - Manchester, NH 03101-1227  
Tel: 603-665-5555 Fax: 603-665-4668  
184 South Willnooski Ave. - Burlington, VT 05401  
Tel: 802-860-1331 Fax: 802-860-6489  
Web Page: www.htatanner.com E-Mail: hqhta@ht.com

STATE OF VERMONT  
REGISTERED ENGINEER  
NO. 7998  
JAMES T. JAMES  
11/5/03

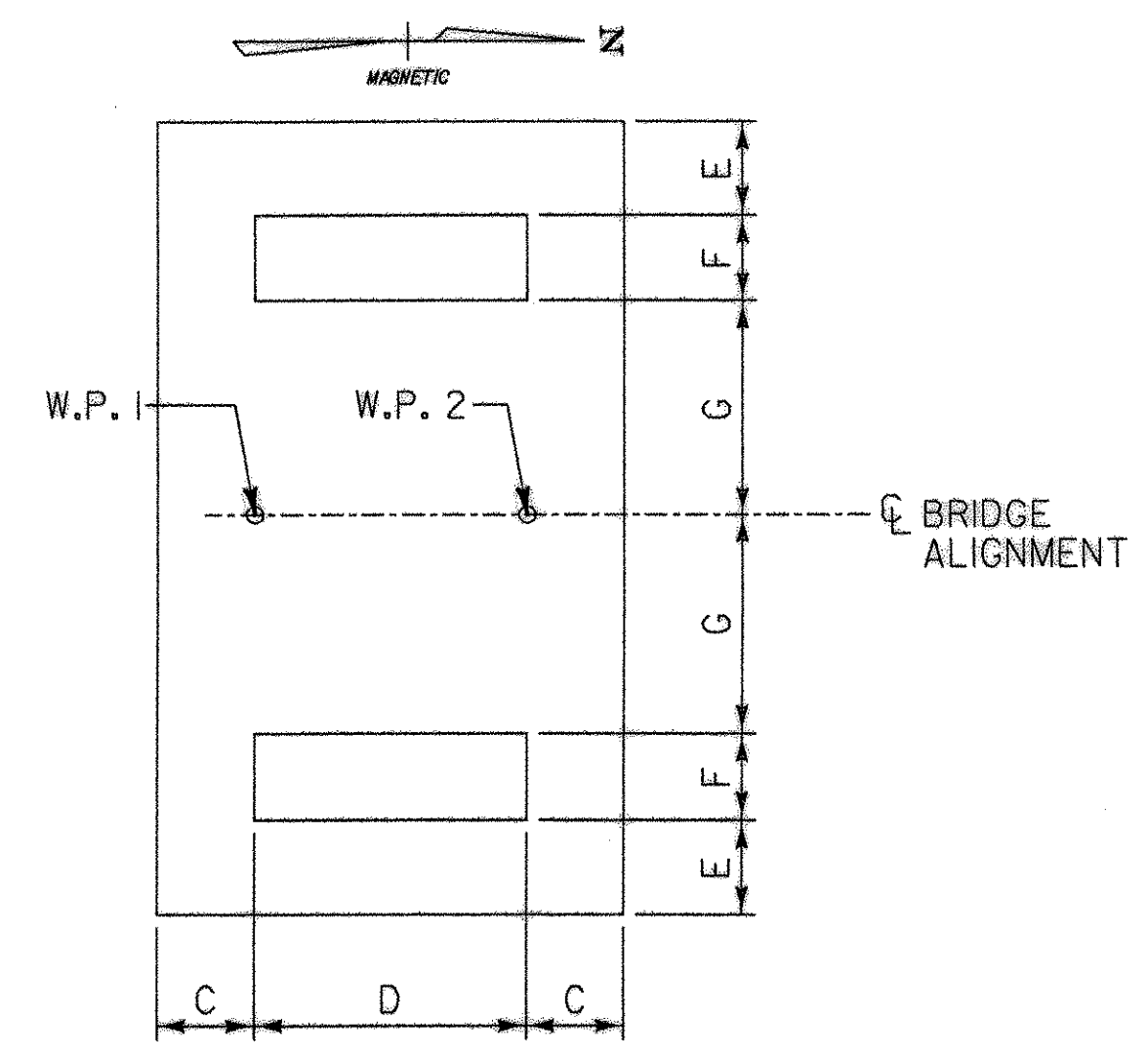
RECORD COPY REVISIONS		DR BY JBM	CHK BY STJ
Town Of	BRIGHTON		Bridge No.
Highway No.			Log Sta.
			Surv. Sta.
<b>BRIGHTON PEDESTRIAN BRIDGE</b>			
<b>PLAN AND PROFILE</b>			
Designed By	S.T. JAMES	Drawn By	J.D. GEER
Checked By	R.H. DURFEE	Date	MAY, 2002
PROJECT	BRIGHTON		PROJECT NO. STP BIKE (14)S
I.G.C. Info.	Z90686PP.dgn		
Bridge Sheet No.	4	Sheet	4 of 14



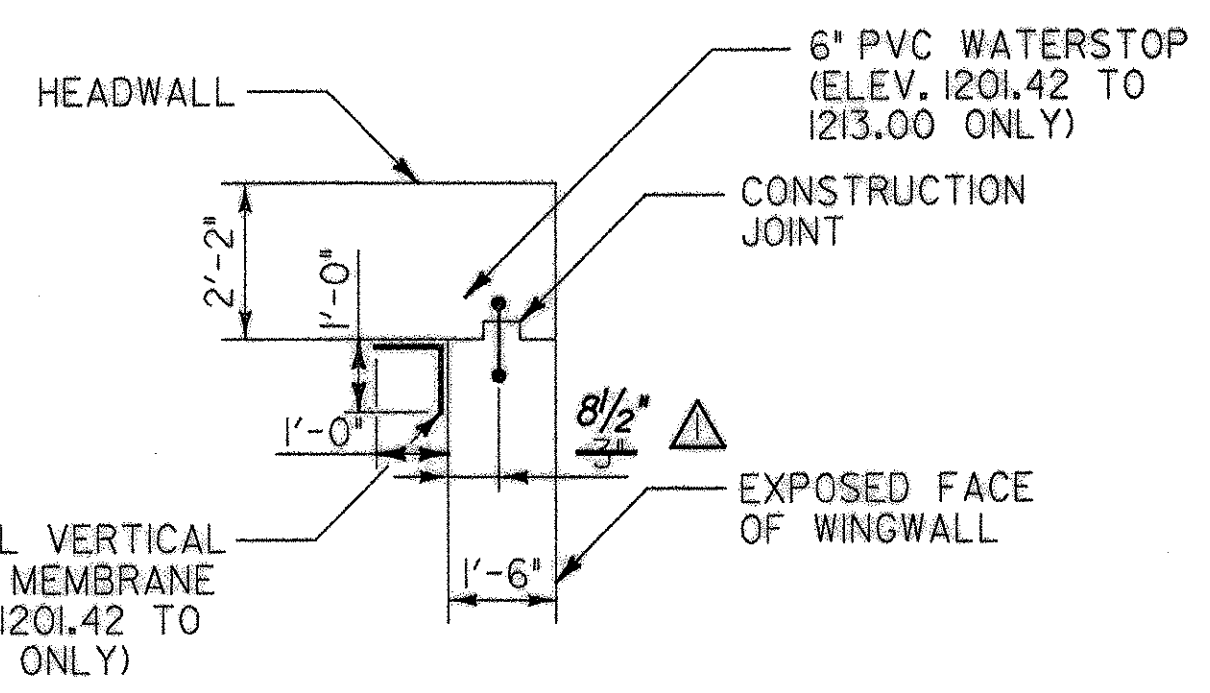
**ABUTMENT No. 1 PLAN**  
SCALE 1/4" = 1'-0"



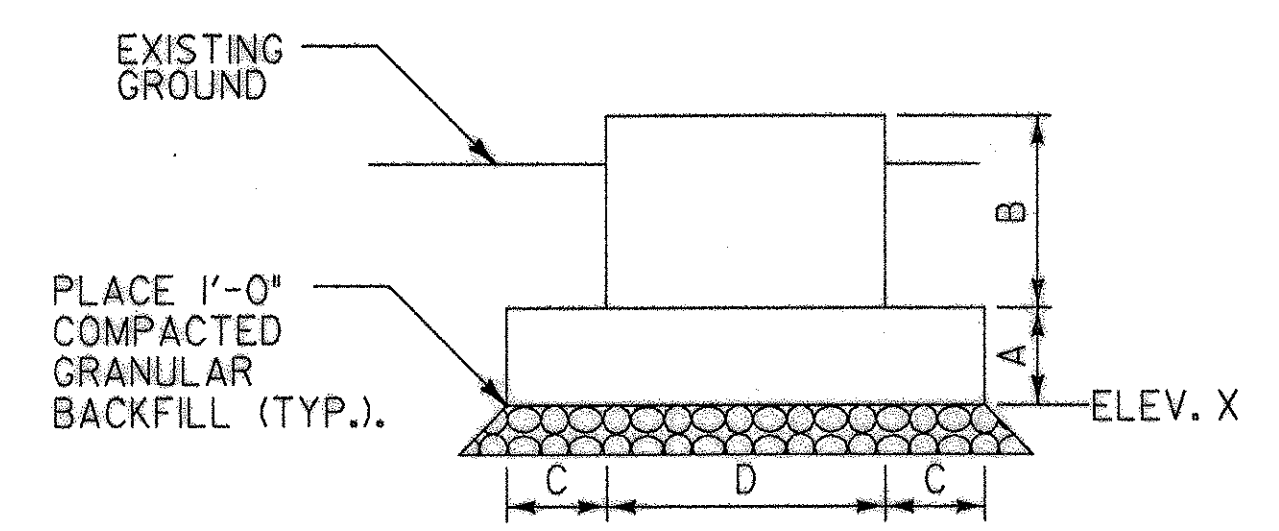
**SECTION A-A**  
SCALE 1/4" = 1'-0"



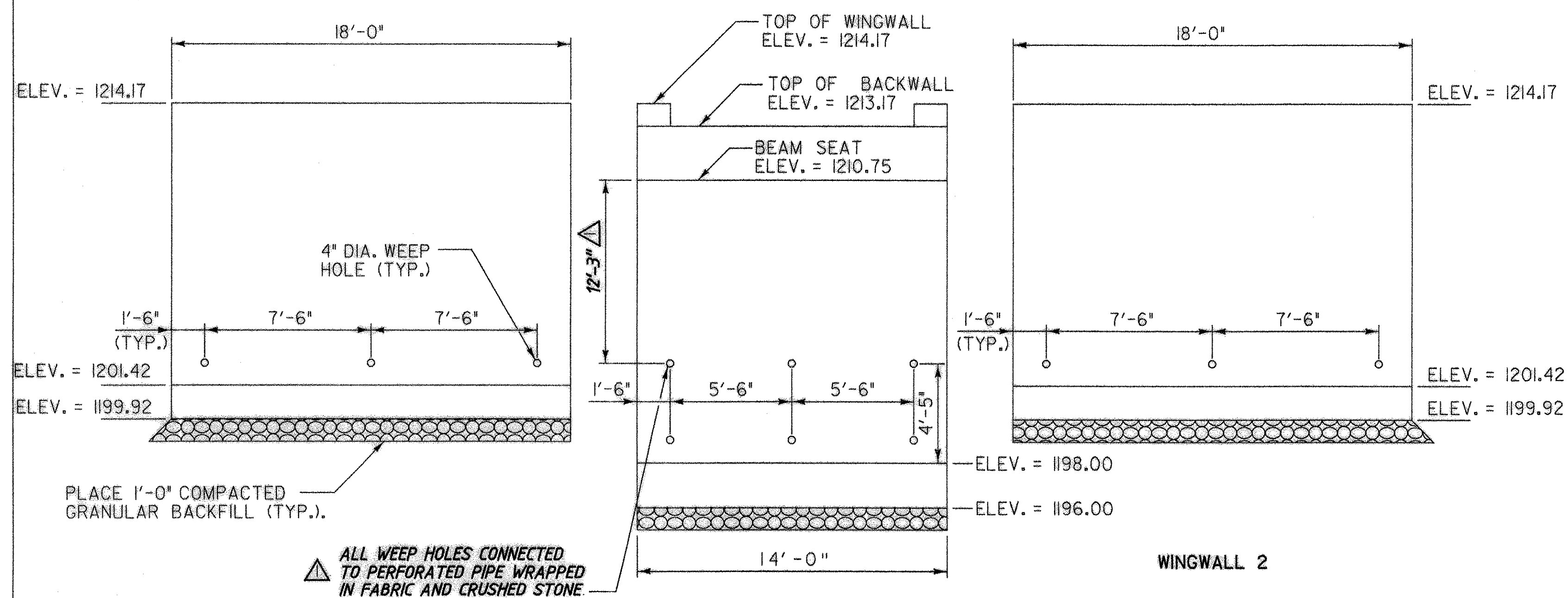
**TYPICAL PIER FOOTING PLAN**  
SCALE 1/4" = 1'-0"



**ABUTMENT-WINGWALL JOINT DETAIL**  
SCALE 3/8" = 1'-0"



**TYPICAL PIER FOOTING ELEVATION**  
SCALE 1/4" = 1'-0"



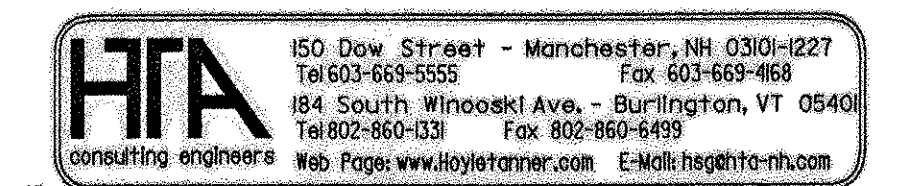
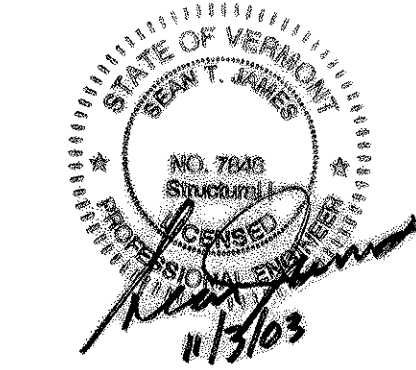
**ABUTMENT No. 1 ELEVATION**  
SCALE 1/4" = 1'-0"

NOTE: PVC WATERSTOP AND SHEET MEMBRANE ARE SUBSIDIARY TO ITEM 501.25. REINFORCING STEEL SHALL BE CONTINUOUS THROUGH JOINT. TOP W501BARS MAY BE CUT IN THE FIELD TO FIT.

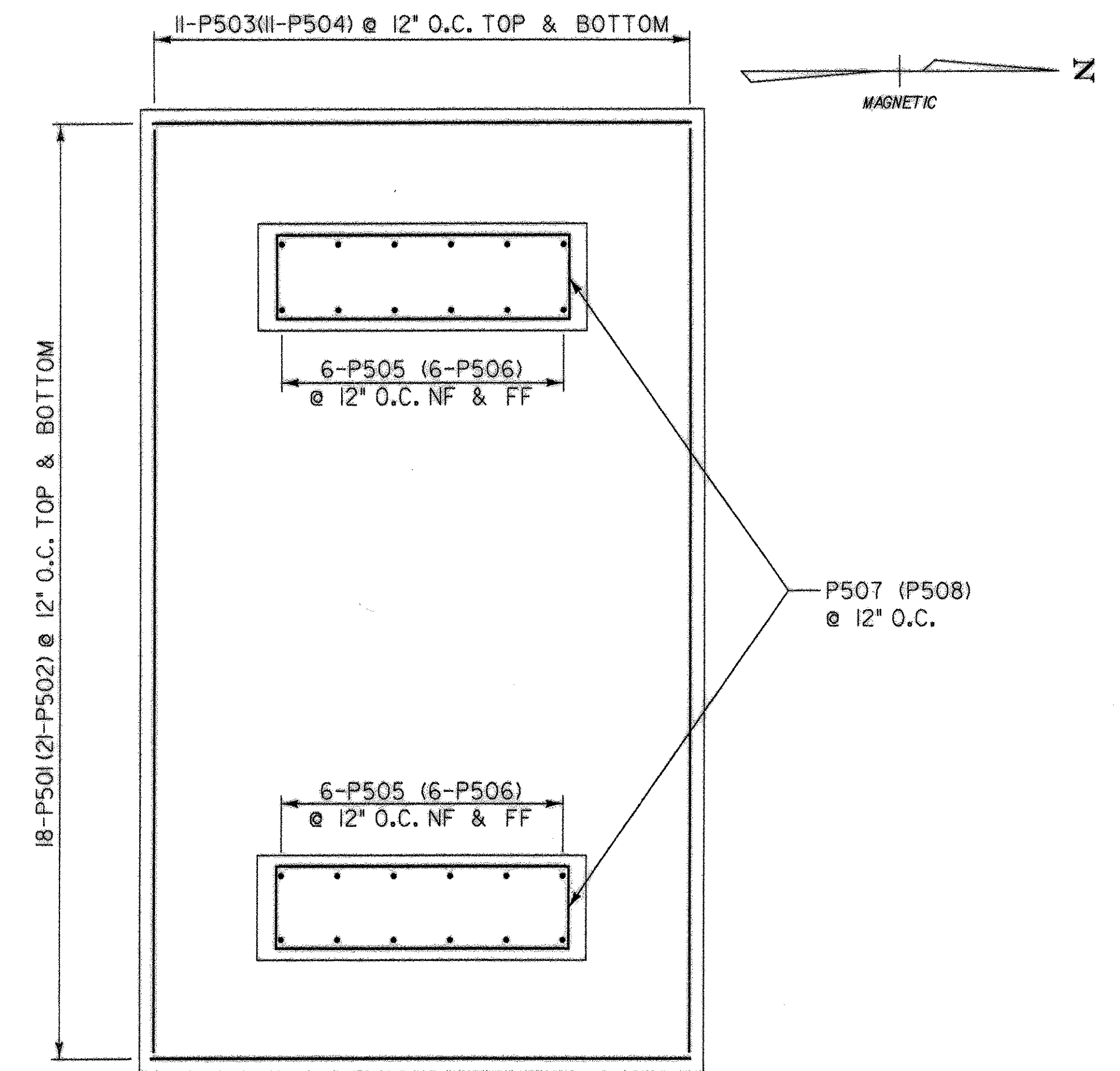
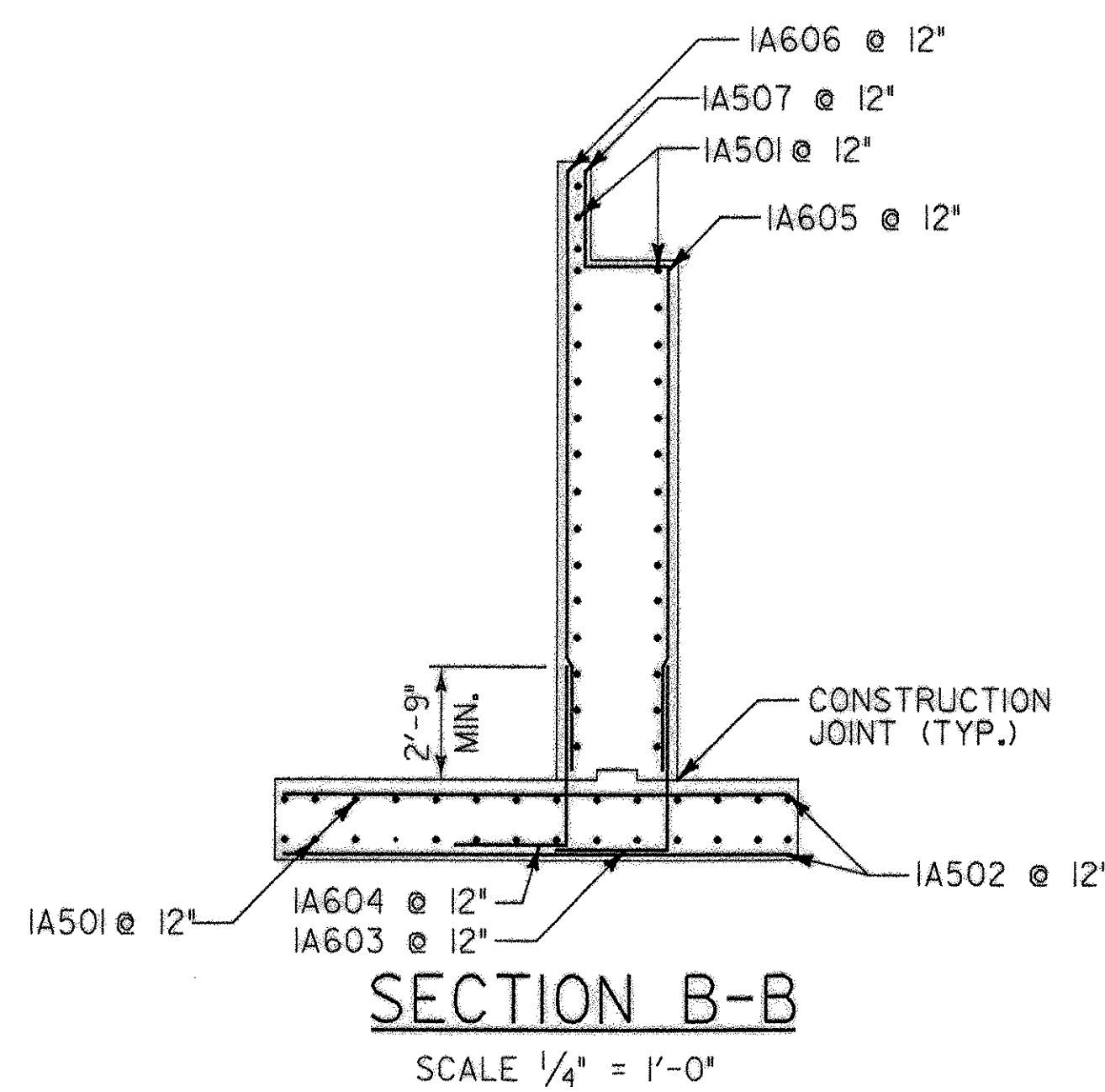
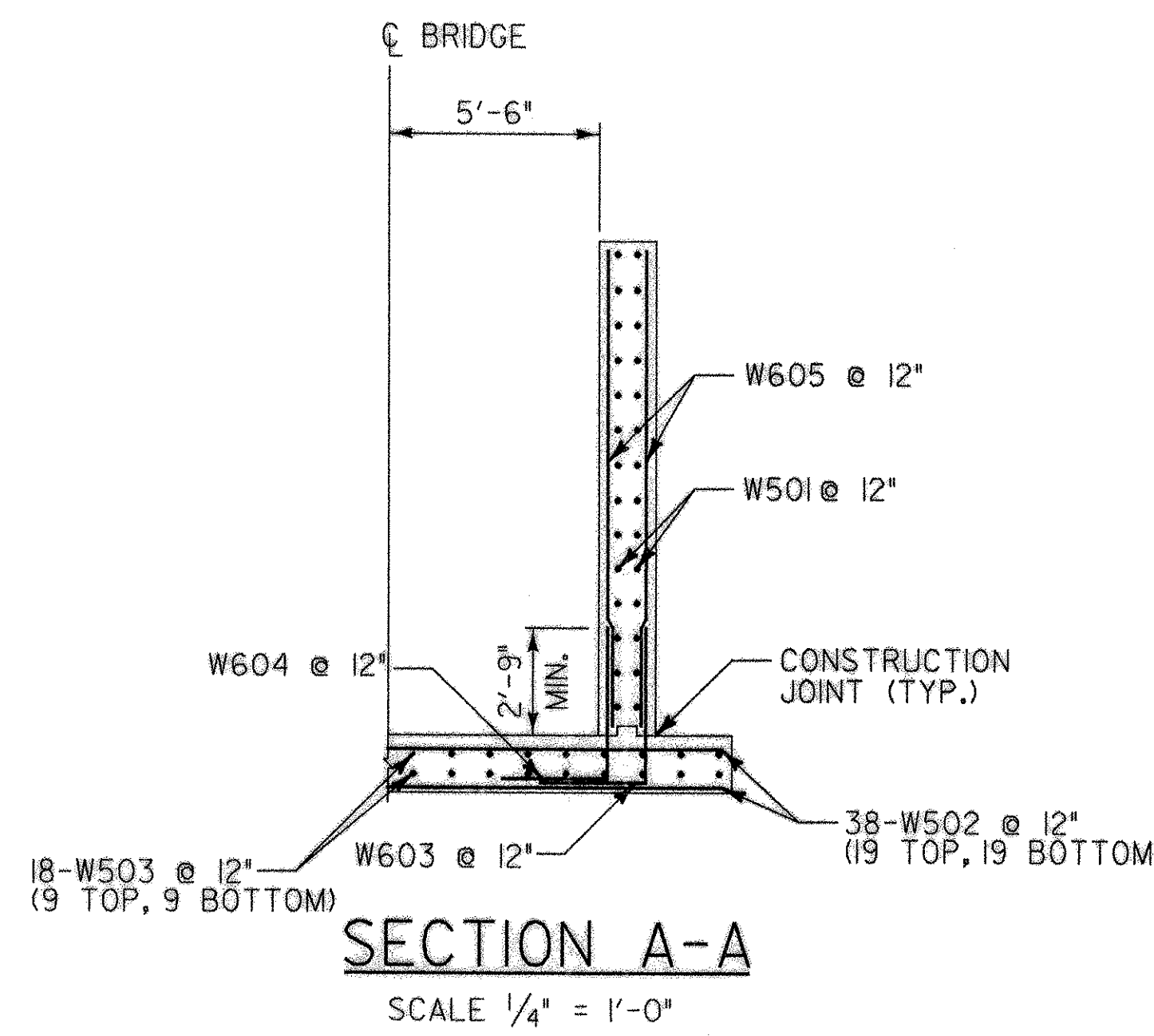
PIER FOUNDATION TABLE										
LOCATION	A	B	C	D	E	F	G	ELEV. X	WP #1 STA.	WP #2 STA.
PIER 1	2'-0"	4'-0"	2'-1"	5'-10"	2'-0"	1'-10"	4'-8"	1182.00	1+15.75	1+21.58
PIER 2	2'-0"	4'-0"	2'-1"	5'-10"	2'-0"	1'-10"	4'-8"	1182.00	1+34.50	1+40.33
PIER 3	4'-6"	4'-0"	2'-1"	5'-10"	3'-10"	1'-10"	4'-4"	1179.50	1+53.25	1+59.08

**PLAN NOTES:**

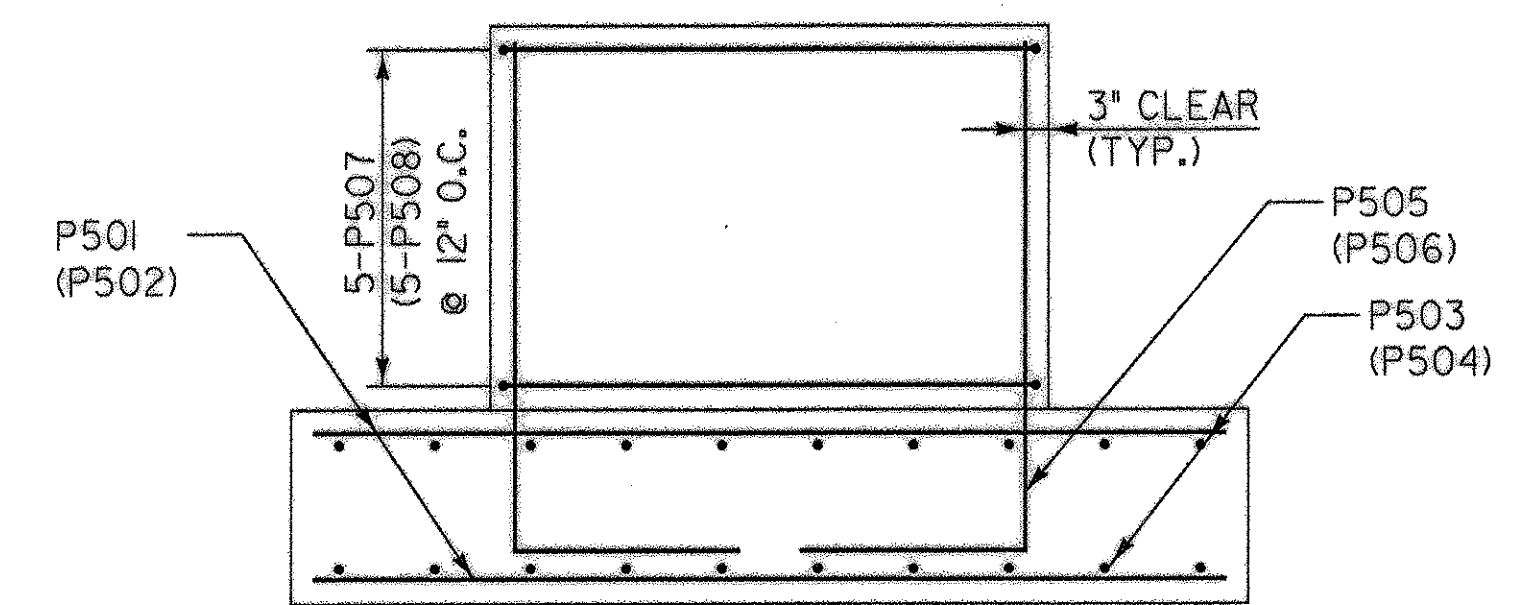
- ABUTMENT NO. 1 SHALL HAVE AN APPROVED FORM LINER USED ON ALL OUTSIDE FACES OF THE ABUTMENT TO PROVIDE A STONE/ASHLAR FINISH. THE FORM LINER SHALL EXTEND TO A MINIMUM DEPTH OF ONE FOOT BELOW EXISTING GRADE. THE CONTRACTOR SHALL SUBMIT THE PROPOSED FORM LINER TO THE ENGINEER FOR APPROVAL.
- THE PIER FOOTINGS SHALL BE BACKFILLED PRIOR TO INSTALLATION OF THE TIMBER PIER MEMBERS.
- SEE SHEET 8 FOR STRINGER BEARING PAD DETAILS.
- A CULTURED STONE FACING, MANUFACTURED BY OWENS CORNING (PRODUCT NUMBER CSU-2025, GRAY COBLE FIELD) WAS ADDED TO THE ABUTMENT IN LIEU OF A FROM LINER.



RECORD COPY REVISIONS		DR BY	CHK BY
		JDG	STJ
Town Of	BRIGHTON	Bridge No.	
Highway No.		Log Sta.	
BRIGHTON PEDESTRIAN BRIDGE			
SUBSTRUCTURE DETAILS (1 OF 2)			
Designed By	S.T. JAMES	Drawn By	W.A. DRUDING
Checked By	R.H. DURFEE	Date	MAY 2002
PROJECT	BRIGHTON	PROJECT NO.	STP BIKE (14)S
I.G.C. Info.	Z9068CF.dgn	Bridge Sheet No.	5
		Sheet	5 of 14

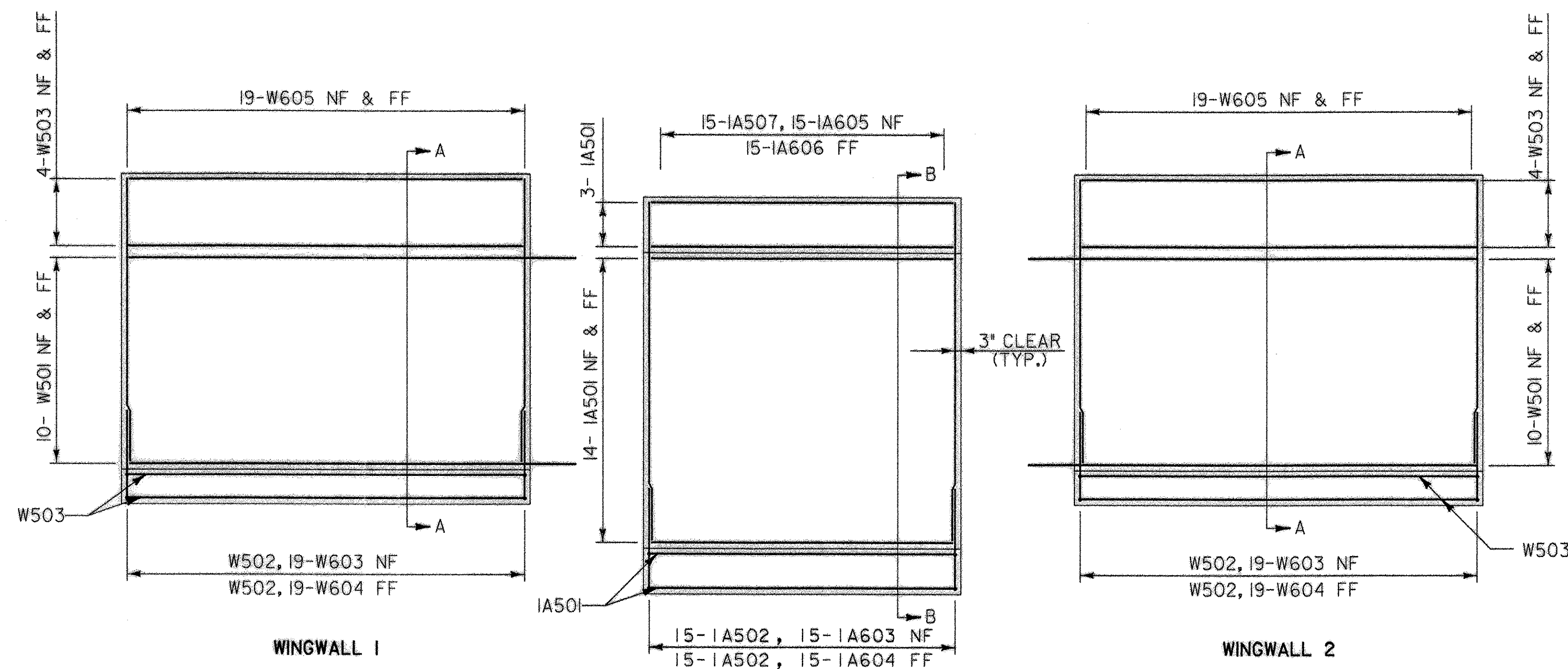


TYPICAL PIER FOOTING PLAN  
SCALE 1/2" = 1'-0"



TYPICAL PIER FOOTING ELEVATION  
SCALE 1/2" = 1'-0"

NOTE: BAR MARKS SHOWN ABOVE ARE FOR PIERS 1&2 WITH PIER 3 MARKS SHOWN IN PARENTHESIS.



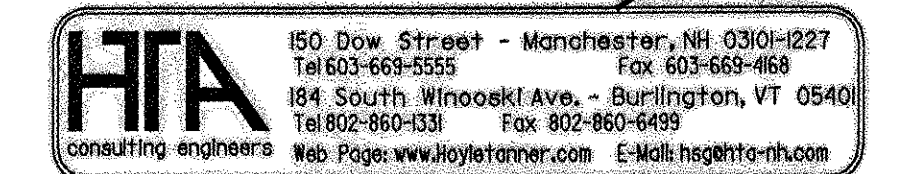
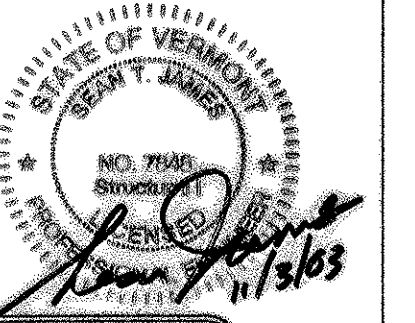
ABUTMENT ELEVATION  
SCALE 1/4" = 1'-0"

PLAN NOTES:

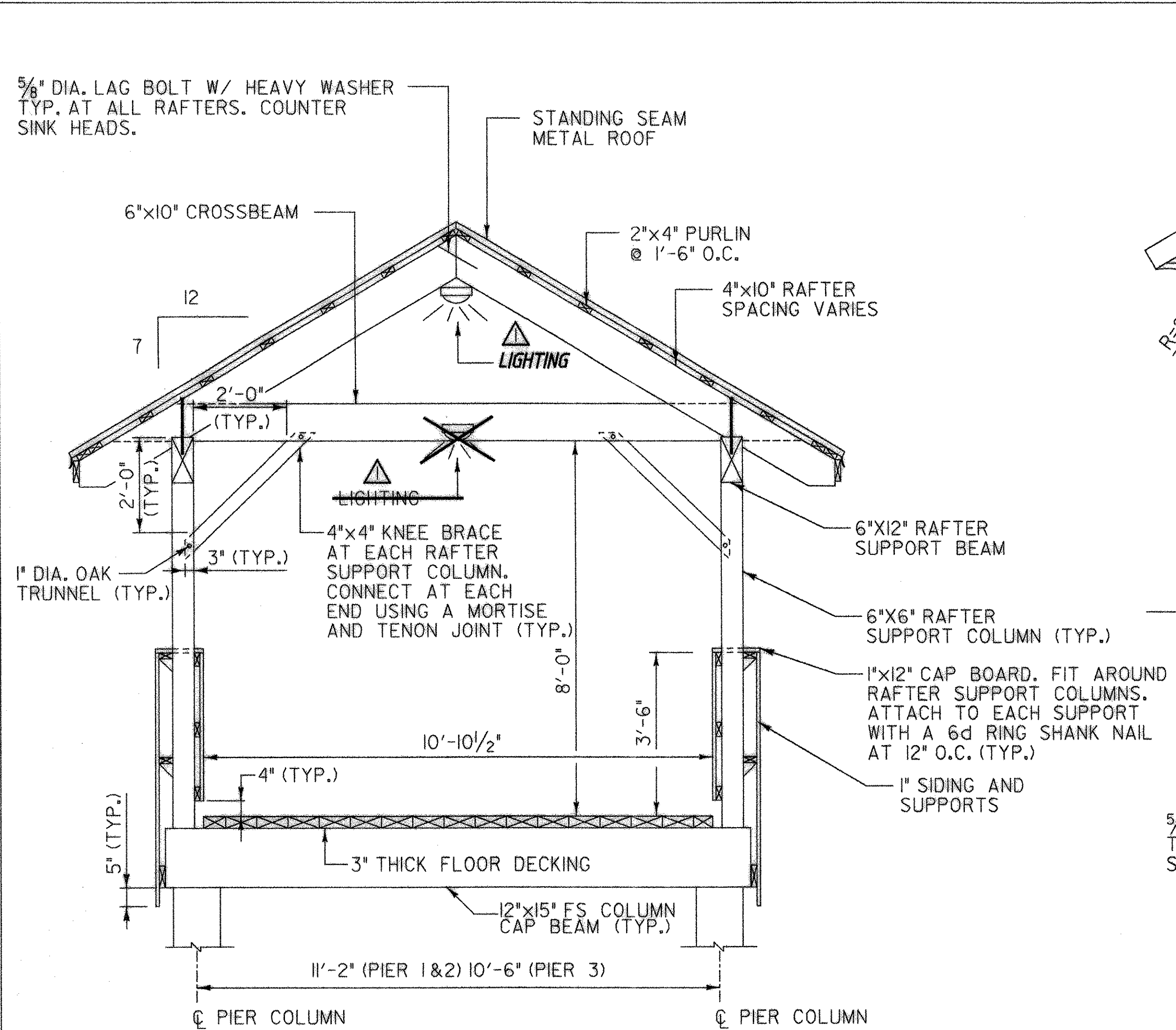
1. WINGWALLS ARE SYMMETRICAL ABOUT THE CENTERLINE OF THE BRIDGE.

LEGEND

NF = NEAR FACE  
FF = FAR FACE  
O.C. = ON CENTER

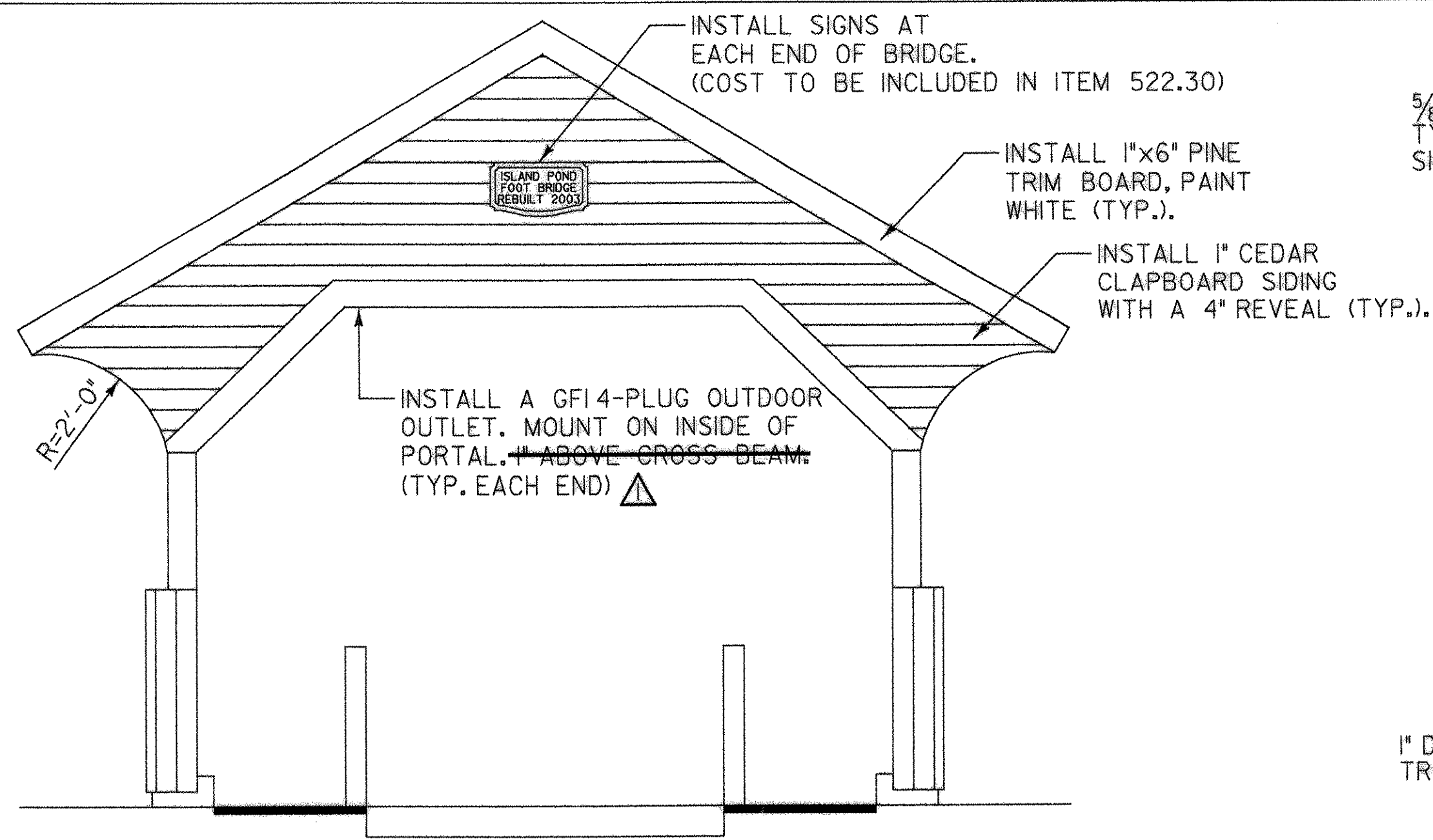


Town Of	<b>BRIGHTON</b>	Bridge No.	
Highway No.		Log Sta.	
		Surv. Sta.	
<b>BRIGHTON PEDESTRIAN BRIDGE</b>			
<b>SUBSTRUCTURE DETAILS (2 OF 2)</b>			
Designed By	S.T. JAMES	Drawn By	W. DRUDING
Checked By	R.H. DURFEE	Date	MAY. 2002
PROJECT	BRIGHTON	PROJECT NO.	STP BIKE (14)S
I.G.C. Info.	Z9068CF2.dgn		
Bridge Sheet No.	6	Sheet	6 of 14



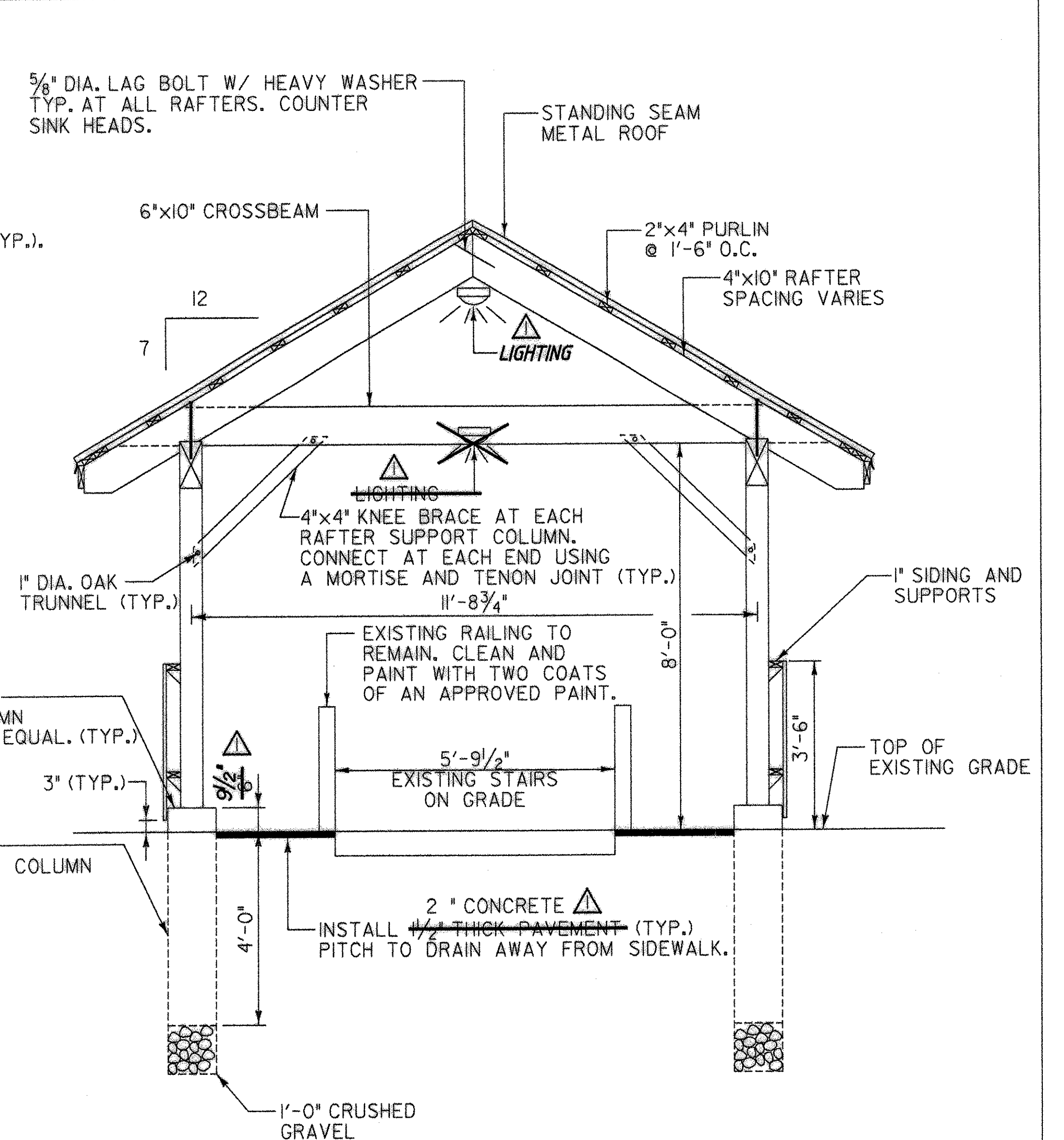
**TYPICAL ELEVATED STAIR SECTION**

(STA. 1+03.0 TO 1+54.1)  
SCALE 1/2" = 1'-0"



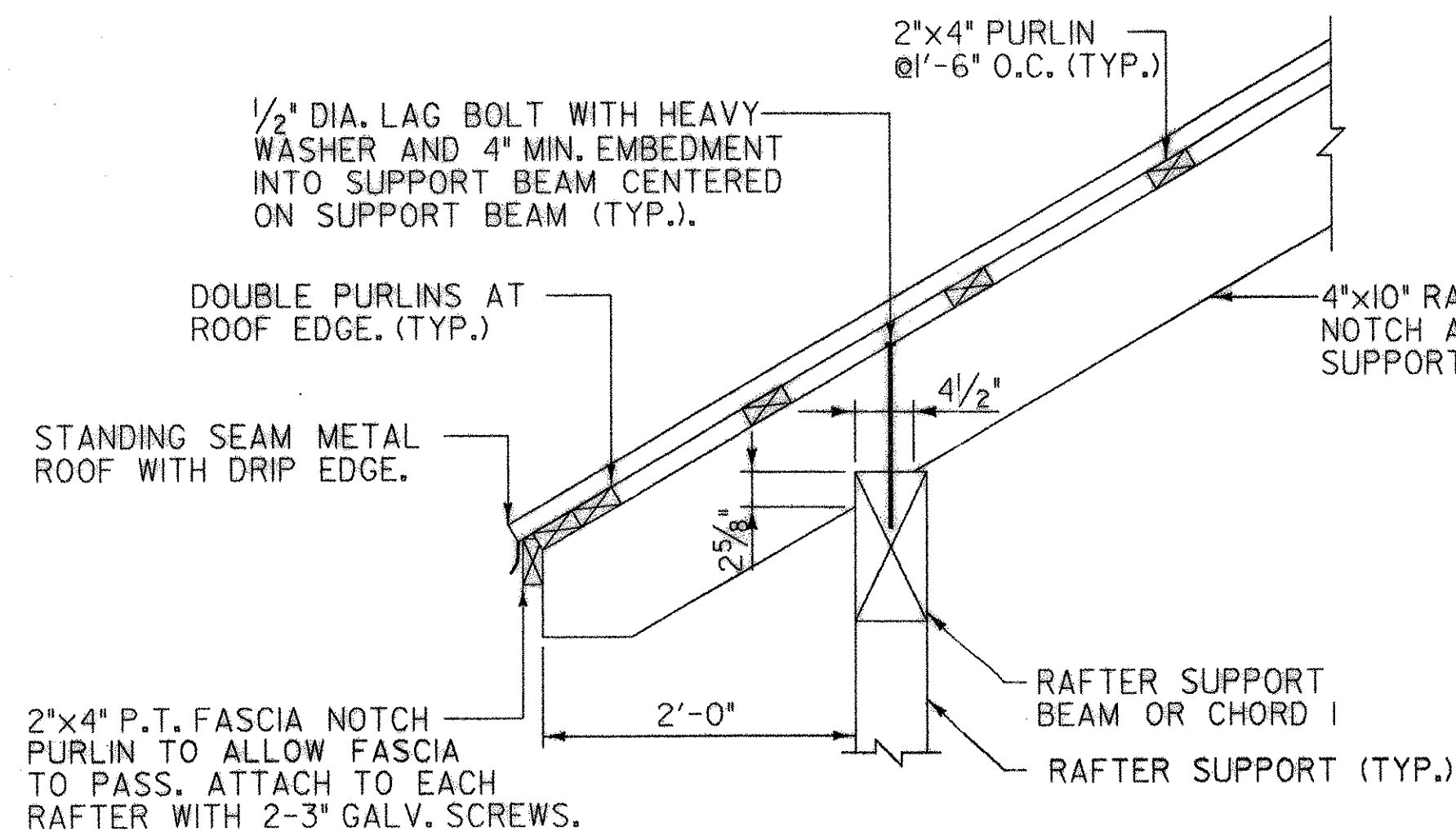
**TYPICAL PORTAL SECTION**

SCALE 1/2" = 1'-0"



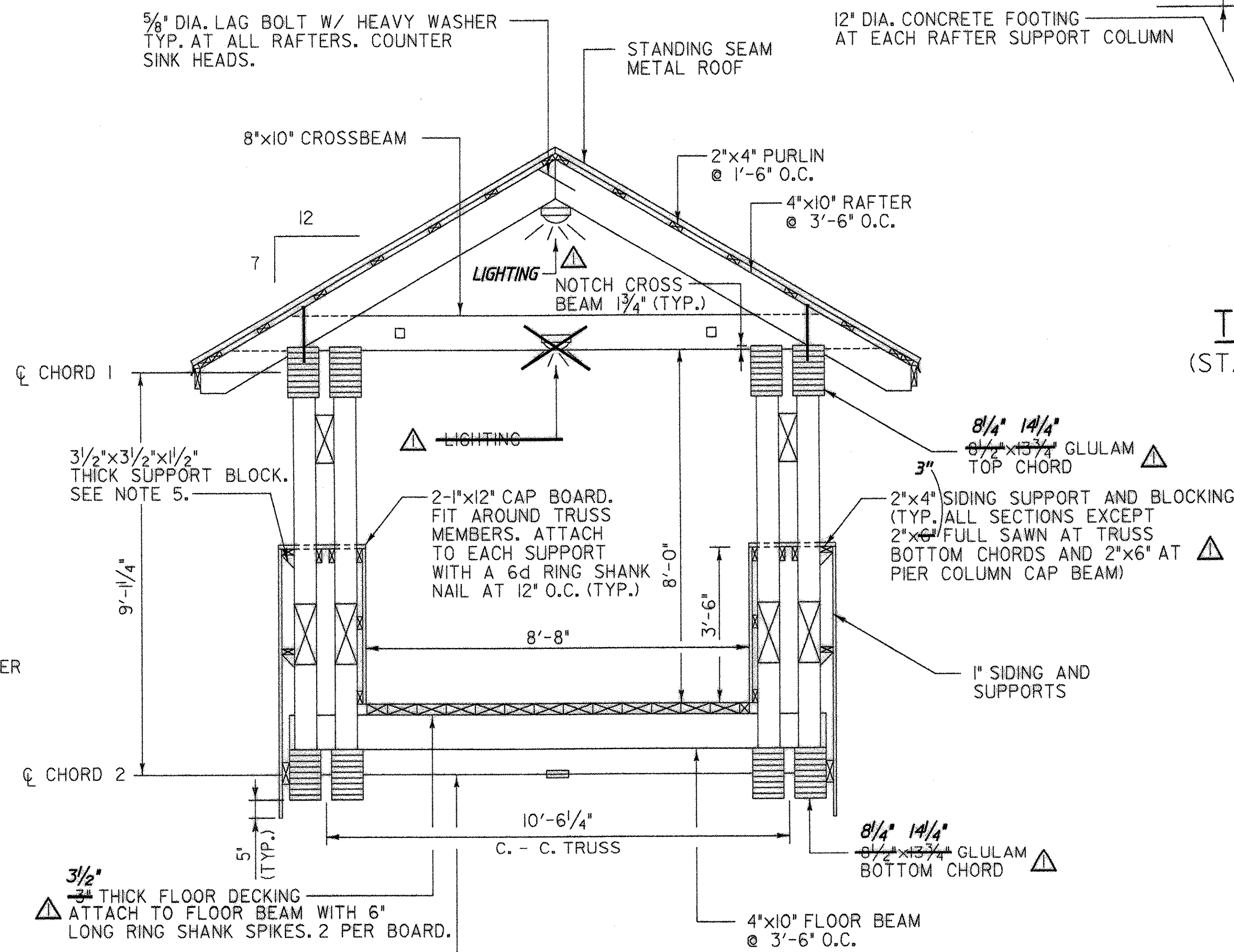
**TYPICAL STAIR ON GRADE SECTION**

(STA. 0+97.3 TO 1+03.0 - STA. 2+66.17 TO 3+27.4)  
SCALE 1/2" = 1'-0"



**ROOF RAFTER DETAIL**

SCALE: 1" = 1'-0"



**TYPICAL BRIDGE SECTION**

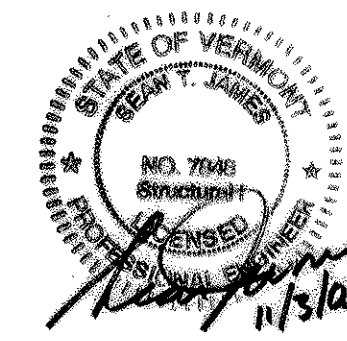
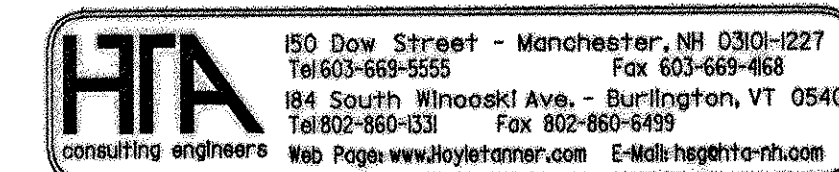
(STA. 1+54.1 TO 2+66.17)  
SCALE 1/2" = 1'-0"

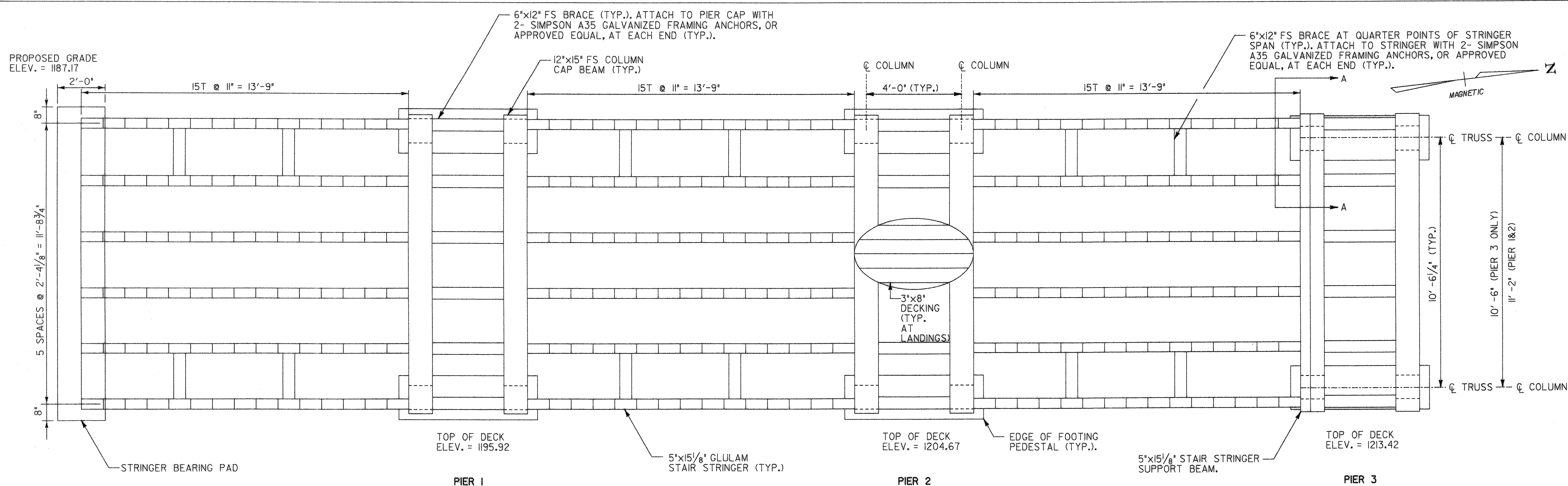
**PLAN NOTES**

- SEE SHEET 12 FOR FLOOR BEAM AND RAFTER LOCATIONS.
- ROOF SYSTEM SHOWN IS A TYPICAL BRIDGE SECTION USED IN ELEVATED STAIR AND STAIR ON GRADE SECTIONS.
- ATTACH SIDING SUPPORTS AND BLOCKS TO EACH TRUSS MEMBER OR RAFTER SUPPORT BEAM WITH 2-3/2 GALV. SCREWS.
- FLOOR DECKING SHALL EXTEND TO THE BACK FACE OF THE INTERIOR SIDING.
- INSTALL ONE 3/2x3/2x1/2 THICK SUPPORT BELOW EXTERIOR 2x4 SIDING SUPPORTS AT EACH TRUSS MEMBER OR RAFTER SUPPORT COLUMN ATTACH TO 2x4 AND TO EACH SUPPORT WITH 2-2/2 GALVANIZED SCREWS.

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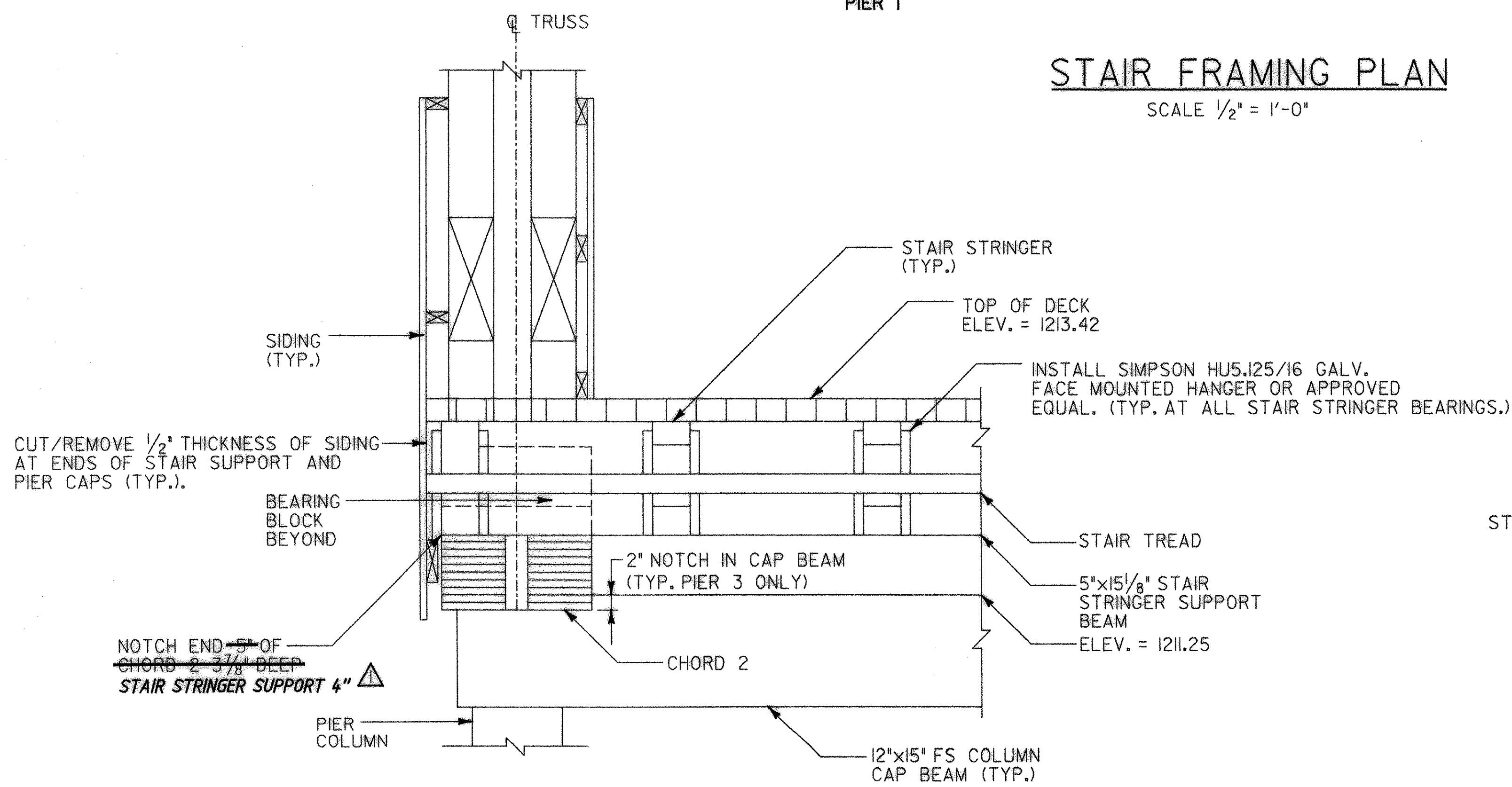
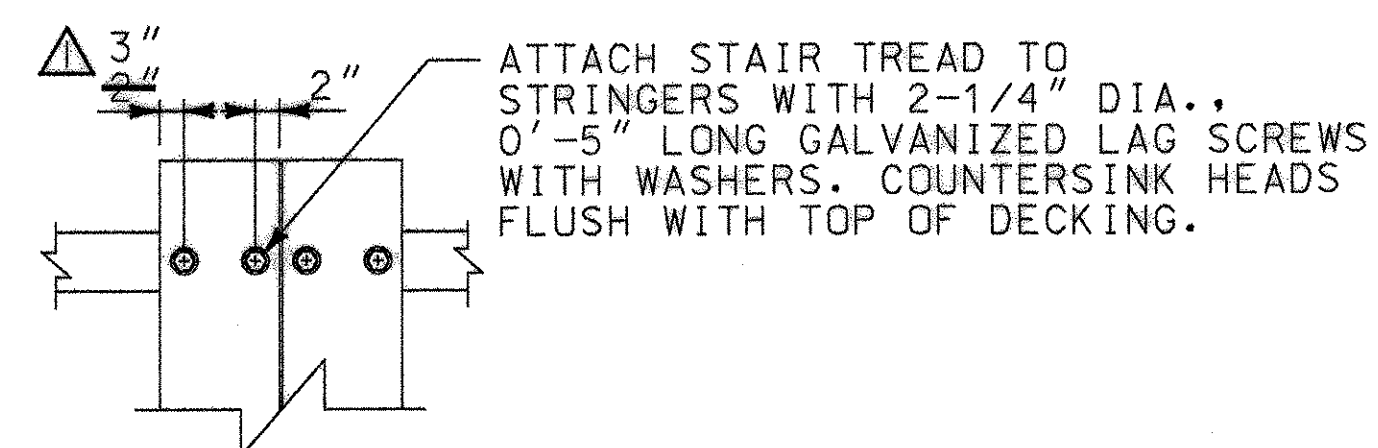
Town Of	BRIGHTON	Bridge No.	
Highway No.		Log Sta.	
		Surv. Sta.	
<b>BRIGHTON PEDESTRAIN BRIDGE</b>			
<b>TYPICAL BRIDGE SECTIONS</b>			
Designed By	S.T. JAMES	Drawn By	J.D. GEER
Checked By	R.H. DURFEE	Date	MAY. 2002
		Bridge Design Supervisor	
PROJECT	BRIGHTON	PROJECT NO.	STP BIKE (14)S
I.G.C. Info.	Z9068DET.dgn		
Bridge Sheet No.	7	Sheet	7 of 14





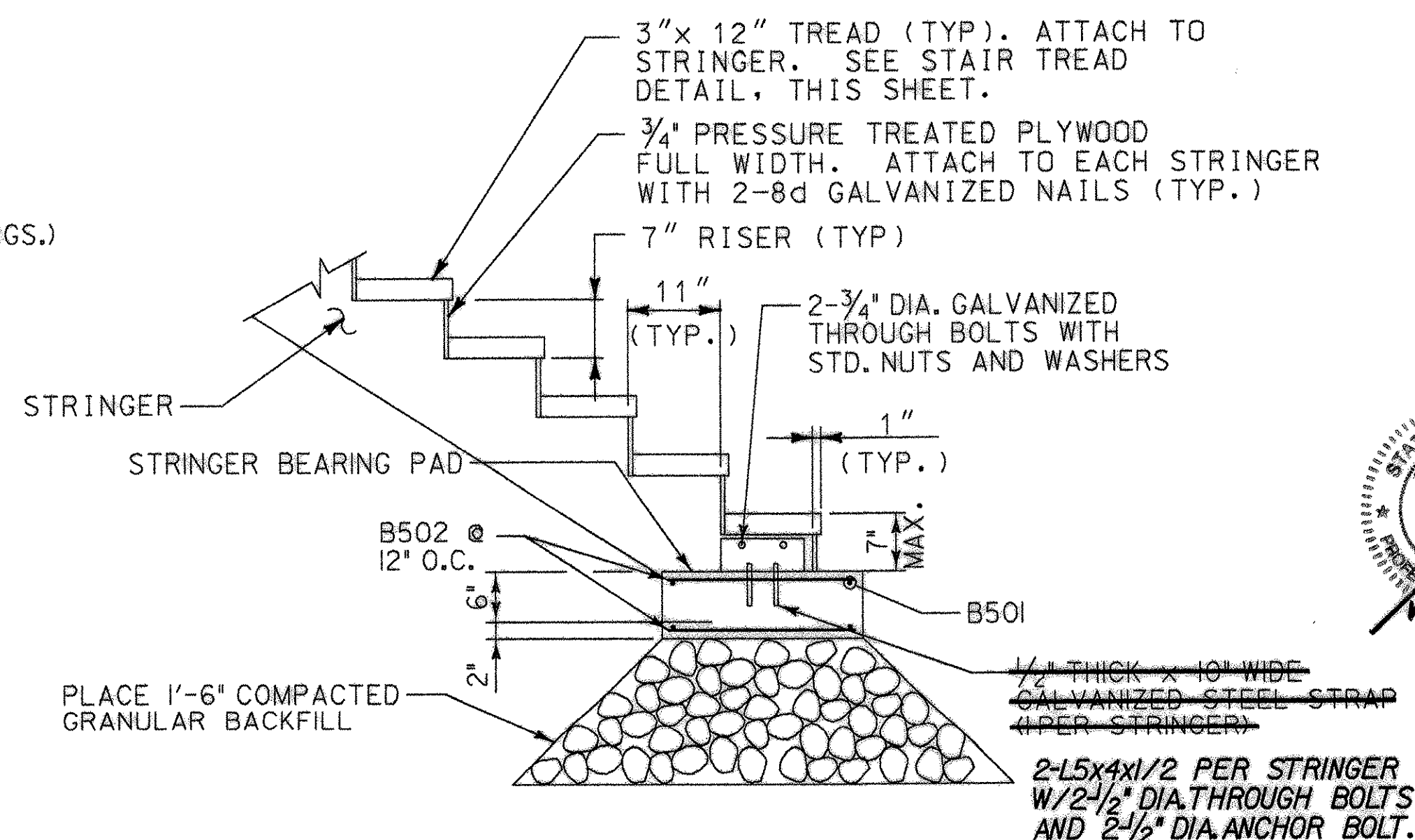
**STAIR FRAMING PLAN**

SCALE 1/2" = 1'-0"



**SECTION A-A**

SCALE 1" = 1'-0"

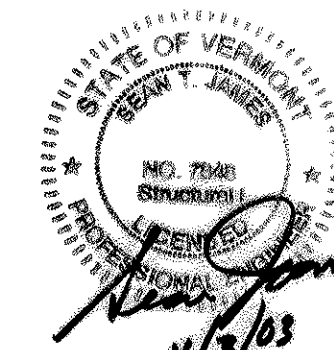


**TYPICAL STRINGER ELEVATION**

SCALE 3/4" = 1'-0"

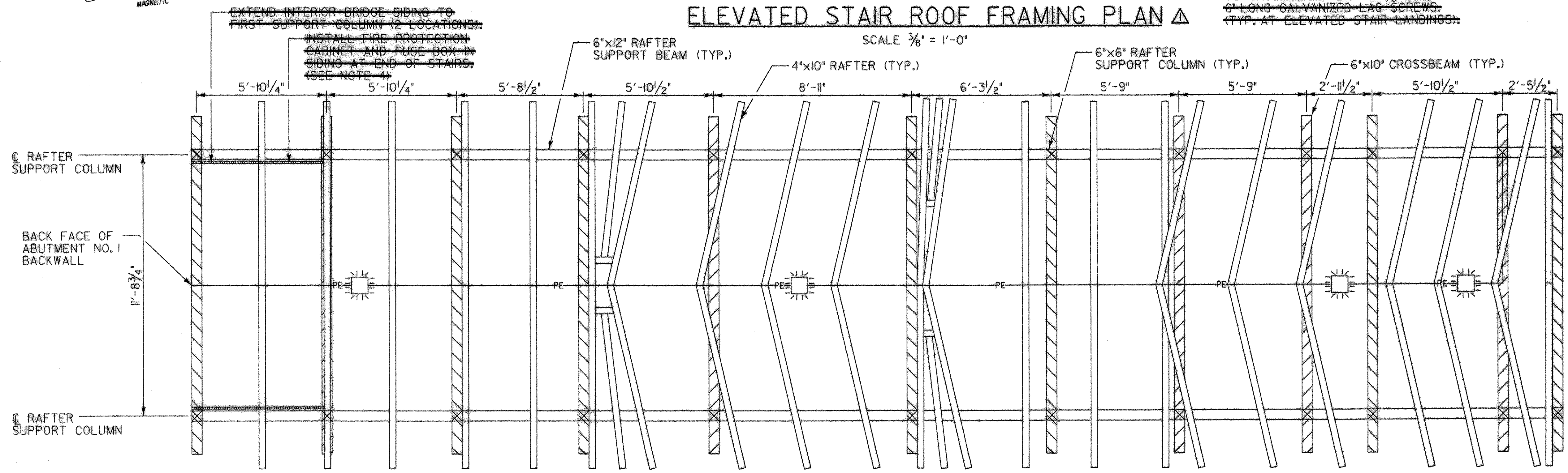
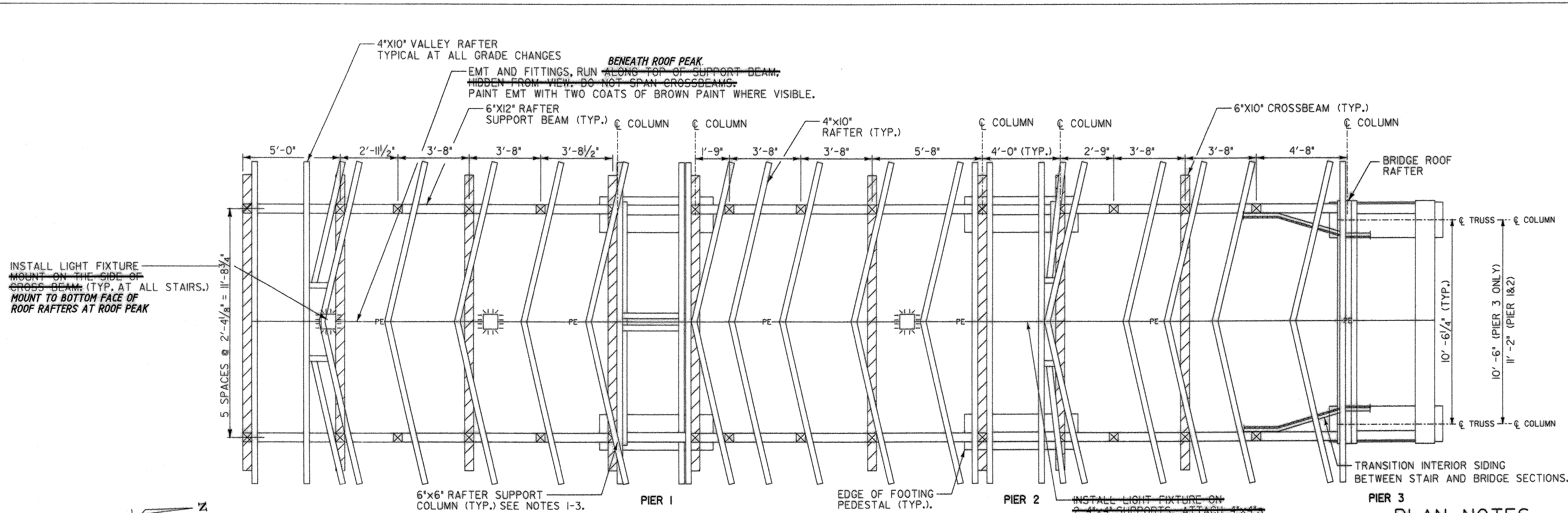
**PLAN NOTES**

- SEE SHEET 10 FOR PIER DETAILS.
- THE CONTRACTOR SHALL SUBMIT CUT SHEETS FOR ALL CONNECTION HARDWARE TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING.



**HIA** CONSULTING ENGINEERS  
 150 Dow Street - Manchester, NH 03101-1227  
 Tel: 603-669-5555 Fax: 603-669-4668  
 184 South Winslow Ave. - Burlington, VT 05401  
 Tel: 802-860-1331 Fax: 802-860-6499  
 Web Page: www.hiaengineers.com E-mail: hia@hiamn.com

RECORD COPY REVISIONS		DR BY JBM	CHK BY STJ
Town Of	BRIGHTON	Bridge No.	
Highway No.		Log Sta.	
		Surv. Sta.	
<b>BRIGHTON PEDESTRIAN BRIDGE</b>			
<b>STAIR PLAN &amp; DETAILS</b>			
Designed By	S.T. JAMES	Drawn By	W. DRUDING
Checked By	R.H. DURFEE	Date	MAY 2002
		Bridge Design Supervisor	
PROJECT	BRIGHTON	PROJECT NO.	STP BIKE (14)S
I.G.C. Info.	Z9068PR2.dgn		
Bridge Sheet No.	8	Sheet	8 of 14



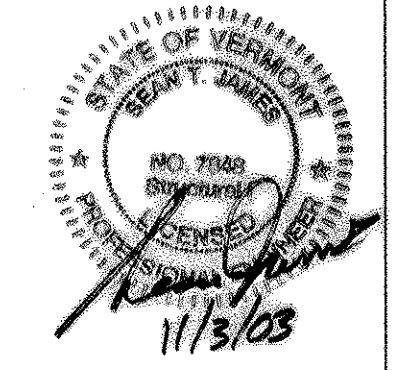
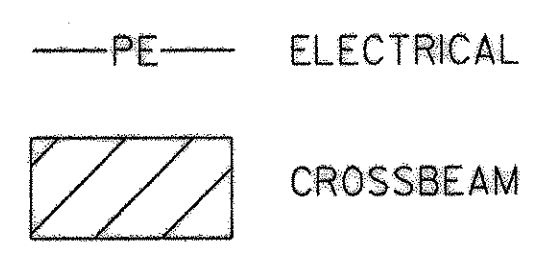
**ELEVATED STAIR ROOF FRAMING PLAN**  $\Delta$   
SCALE  $\frac{3}{8}'' = 1'-0''$

**STAIR ON GRADE ROOF FRAMING PLAN**  $\Delta$   
SCALE  $\frac{3}{8}'' = 1'-0''$

**PLAN NOTES**

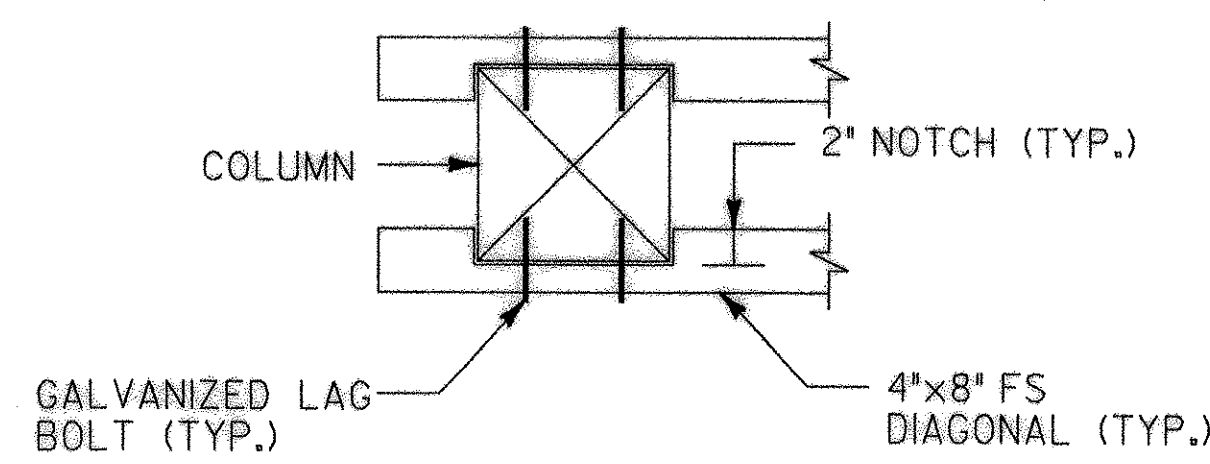
1. ATTACH RAFTER SUPPORT COLUMN BASE TO STAIR STRINGER WITH SIMPSON GALVANIZED COLUMN CAP MODEL NO. CC66 OR APPROVED EQUAL. SHIM WITH HARDWOOD BLOCKS AS REQUIRED.
2. ATTACH RAFTER SUPPORT COLUMN BASE TO CONCRETE FOOTING WITH A GALVANIZED SIMPSON COLUMN BASE MODEL CB6-7 OR APPROVED EQUAL.
3. ATTACH RAFTER SUPPORT COLUMN TO RAFTER SUPPORT BEAM IN ALL LOCATIONS WITH SIMPSON GALVANIZED POST CAP MODEL PC66 OR APPROVED EQUAL AT LANDINGS AND WITH A 4" MORTISE AND TENON JOINT AT ALL POSTS ON STAIR INCLINES.
4. THE CONTRACTOR SHALL CONSTRUCT AN INSULATED LOCKABLE CABINET TO HOUSE THE FIRE PROTECTION CONTROL BOX AND FUSE BOX. THE CABINET DOOR SHALL BE CONSTRUCTED FROM SIDING WITH CONCEALED HINGES AND SHALL BLEND INTO THE INTERIOR SIDING. BE LOCATED AT THE WEST FACE OF PIER NO. 3.

**LEGEND**

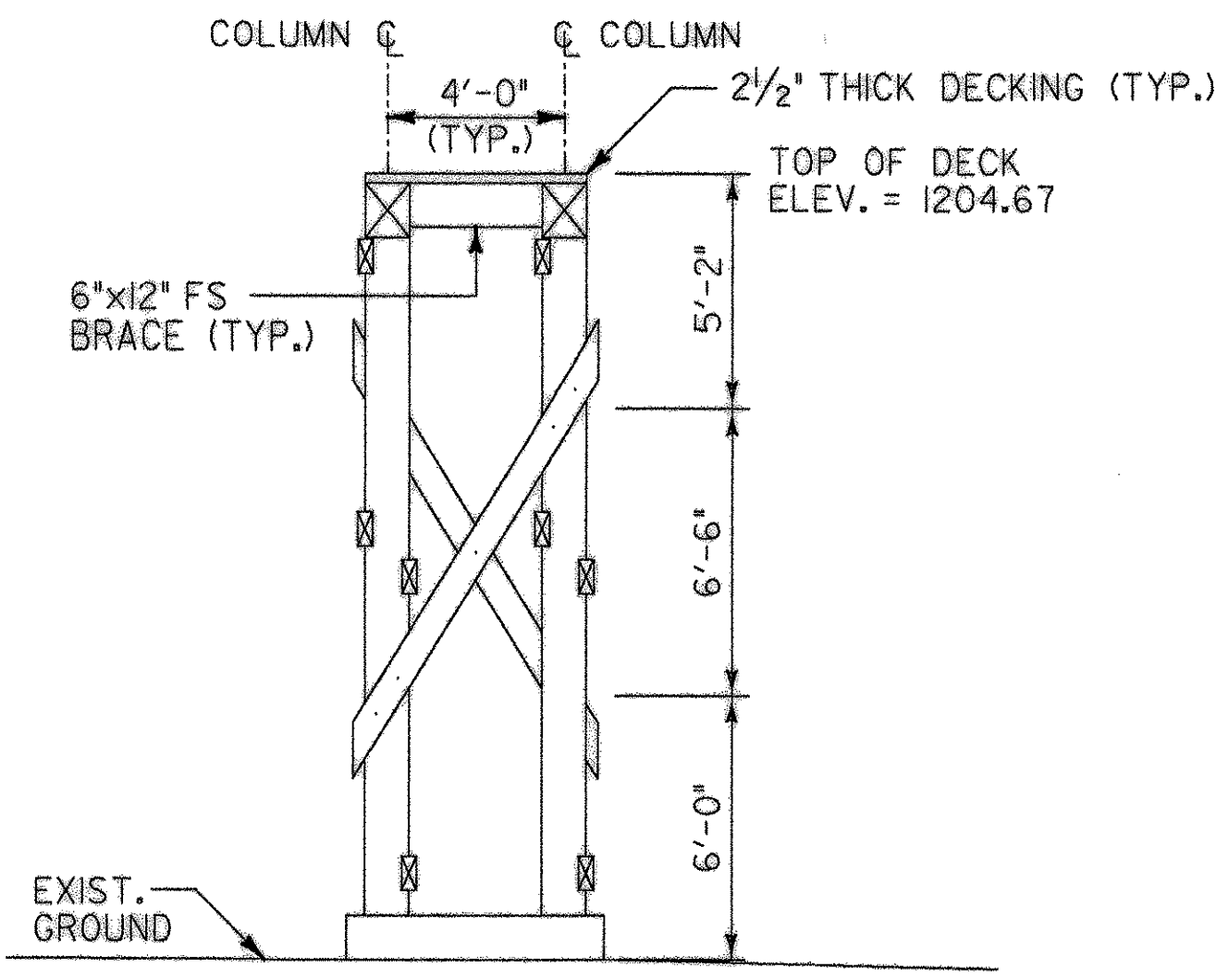


<b>RECORD COPY REVISIONS</b>		DR BY JBM	CHK BY STJ
Town Of	BRIGHTON	Bridge No.	
Highway No.		Log Sta.	
		Surv. Sta.	
<b>BRIGHTON PEDESTRIAN BRIDGE</b>			
<b>APPROACH STAIR ROOF FRAMING</b>			
Designed By	S.T. JAMES	Drawn By	W. DRUDING
Checked By	R.H. DURFEE	Date	MAY 2002
		Bridge Design Supervisor	
PROJECT	BRIGHTON	PROJECT NO.	STP BIKE (14)S
I.G.C. Info.	Z9068SRF.dgn		
Bridge Sheet No.	9	Sheet	9 of 14

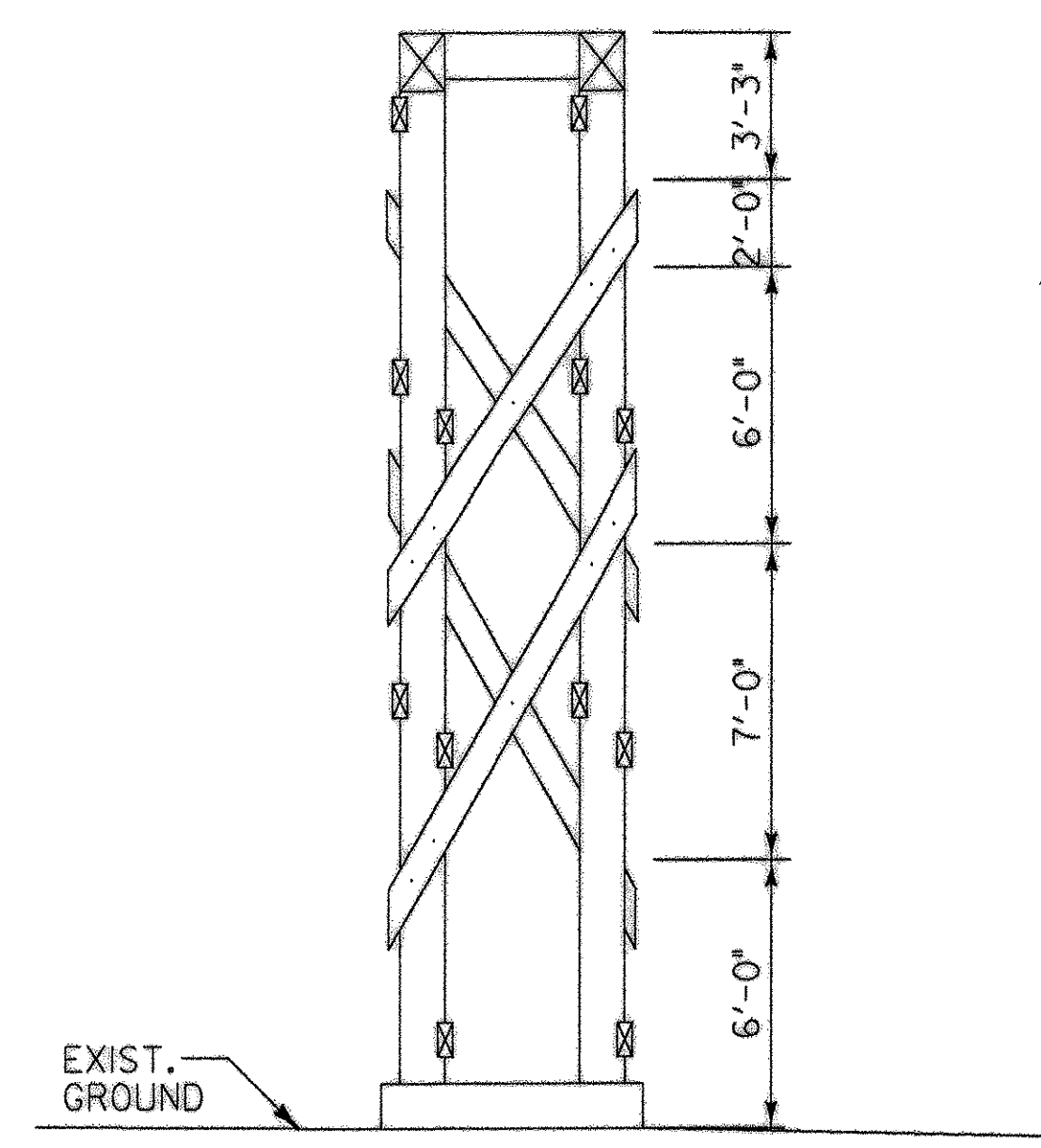




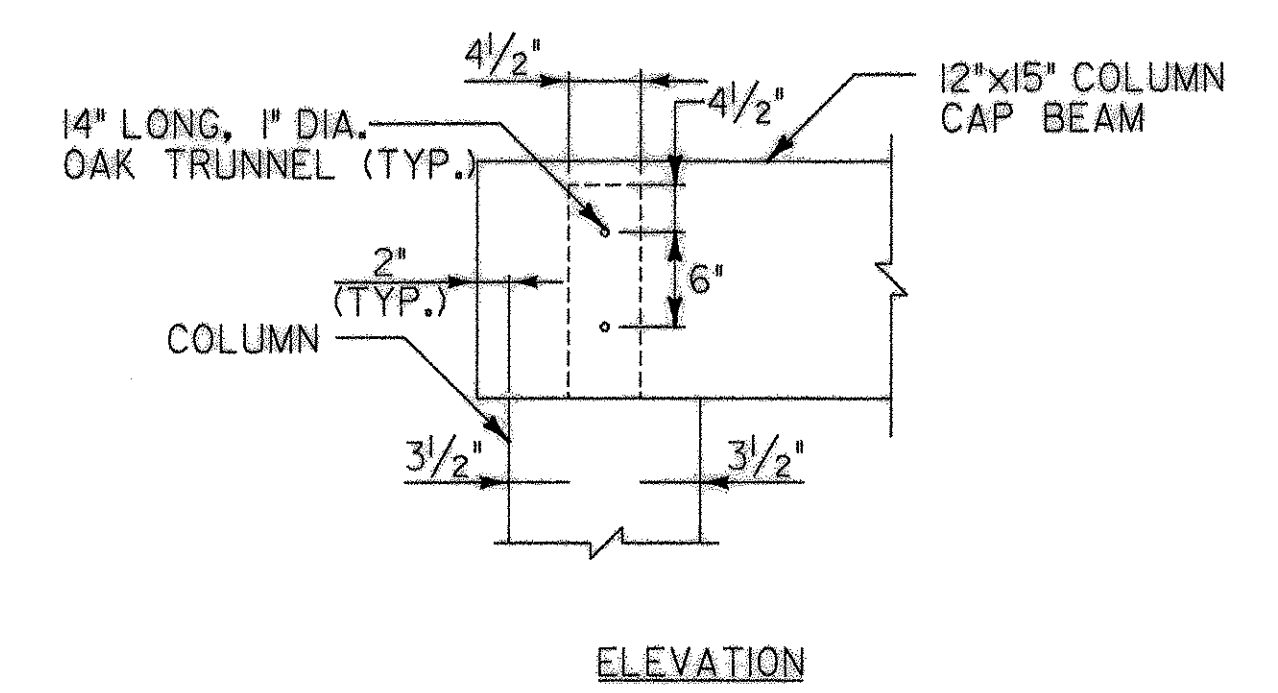
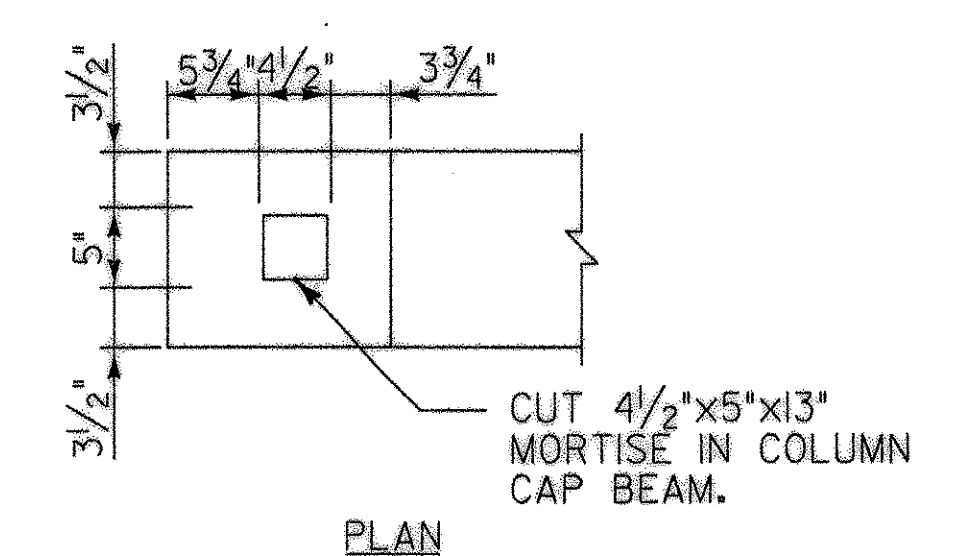
**SECTION A-A**  
SCALE 1" = 1'-0"



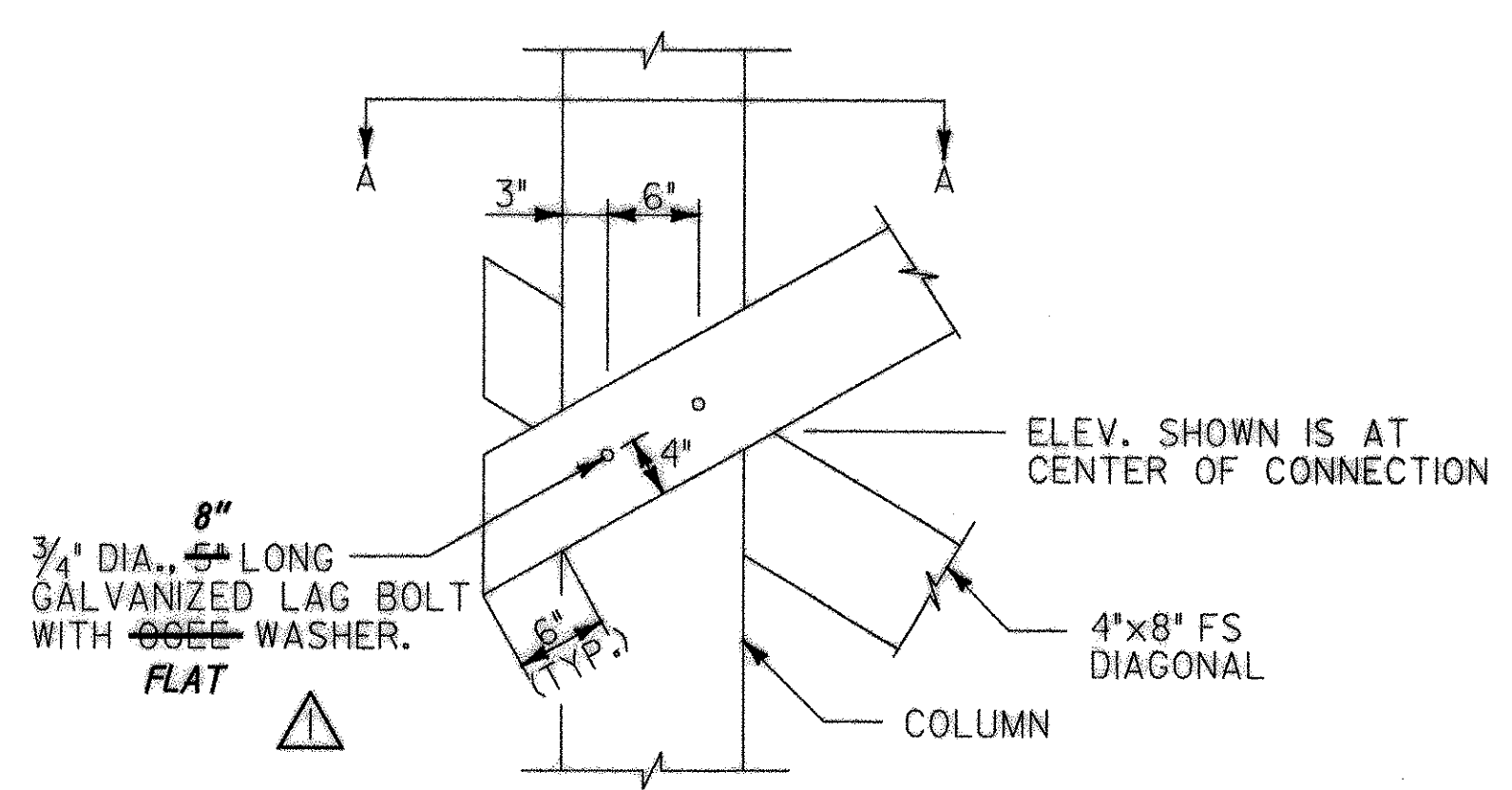
**PIER 2 EAST ELEVATION**  
SCALE 1/4" = 1'-0"



**PIER 3 EAST ELEVATION**  
SCALE 1/4" = 1'-0"



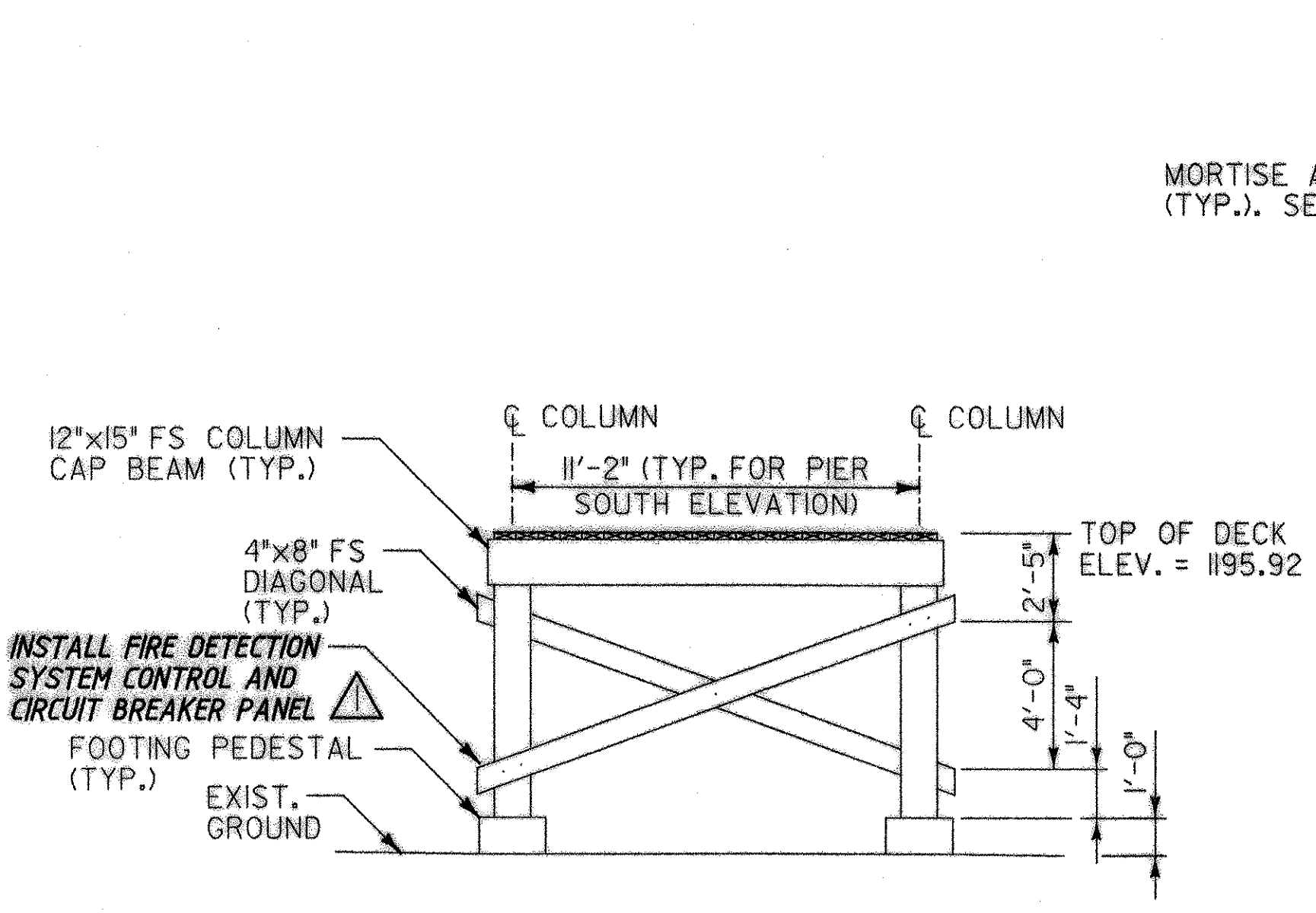
**DETAIL "B"**  
SCALE 1" = 1'-0"



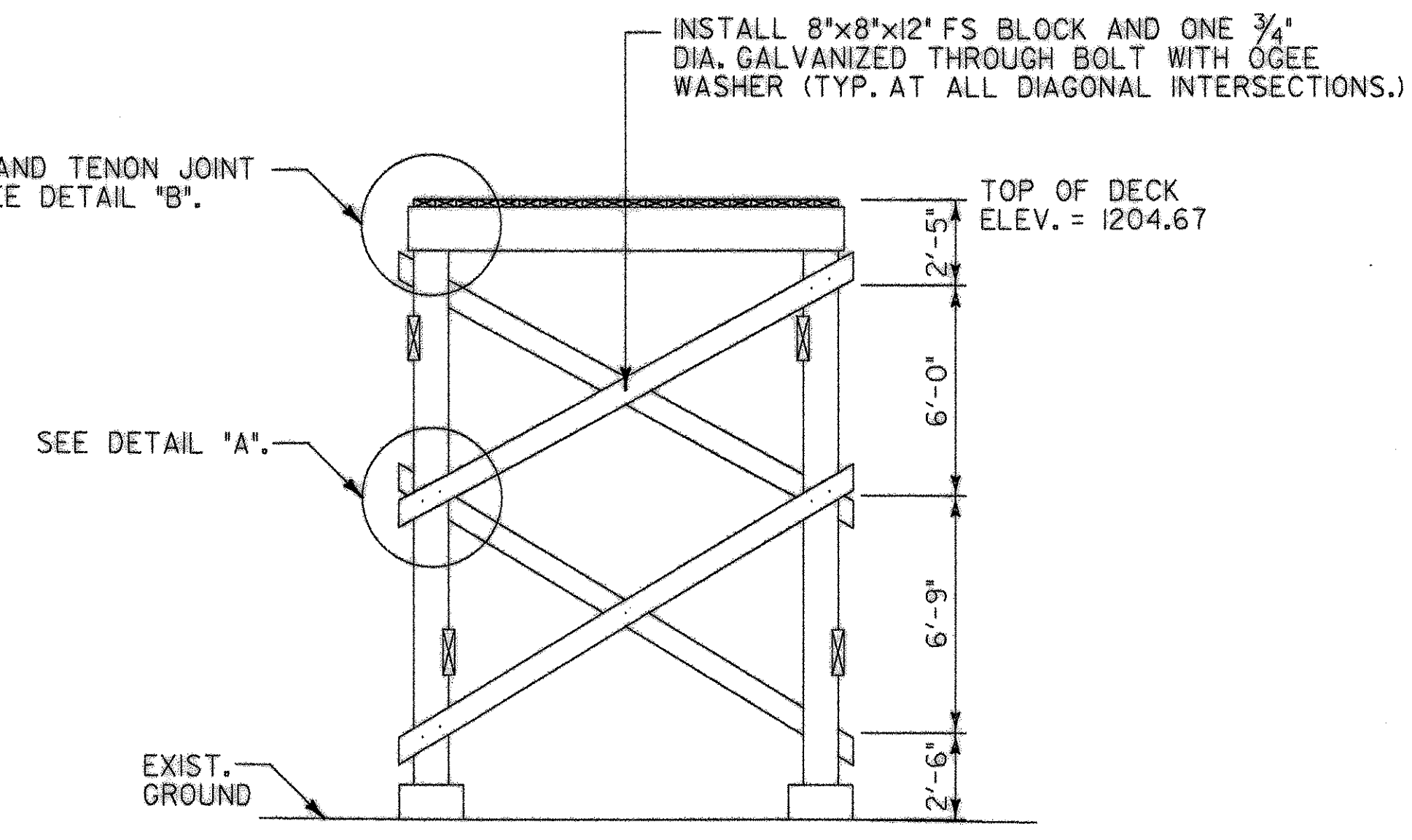
**DETAIL "A"**  
SCALE 1" = 1'-0"

**PLAN NOTES:**

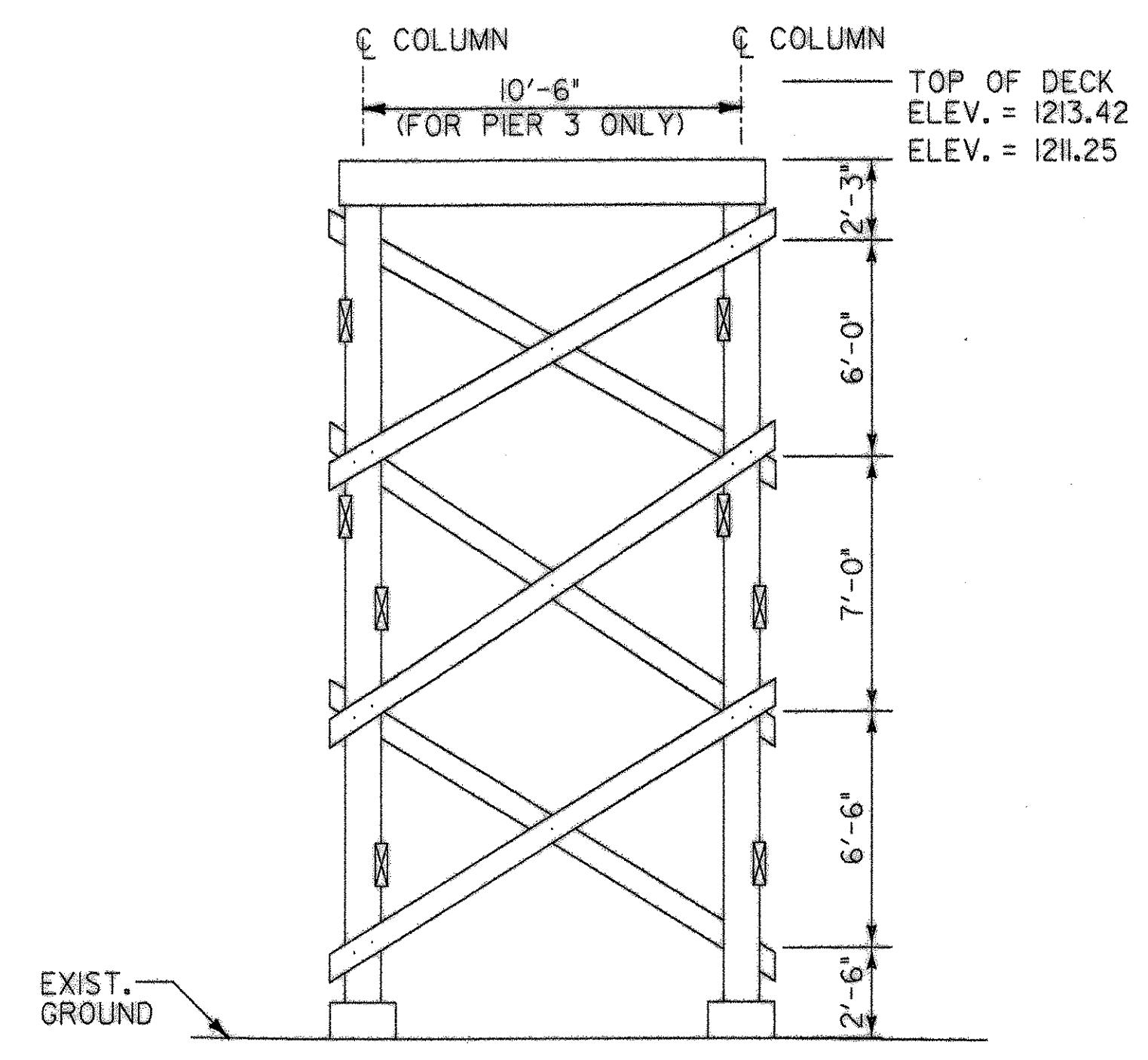
- EAST AND SOUTH ELEVATIONS SHOWN. WEST AND NORTH SIMILAR.
- DIAGONAL BRACING IS NOT REQUIRED ON THE EAST AND WEST ELEVATION OF PIER ONE.
- SEE SHEET 13 FOR COLUMN TO FOOTING PEDESTAL CONNECTION.
- ALL PIER COLUMN, BRACING AND CAP BEAMS SHALL BE PRESSURE TREATED.



**PIER 1 SOUTH ELEVATION**  
SCALE 1/4" = 1'-0"



**PIER 2 SOUTH ELEVATION**  $\Delta$   
SCALE 1/4" = 1'-0"



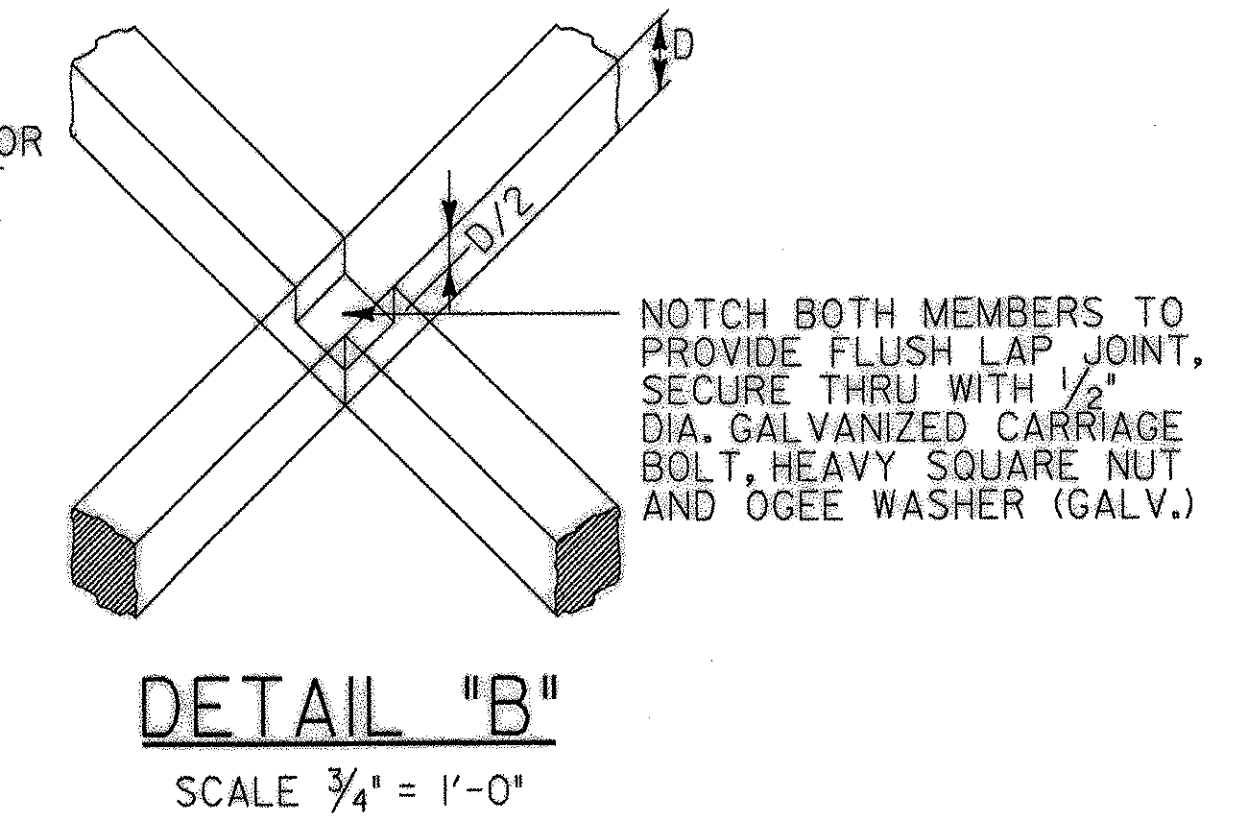
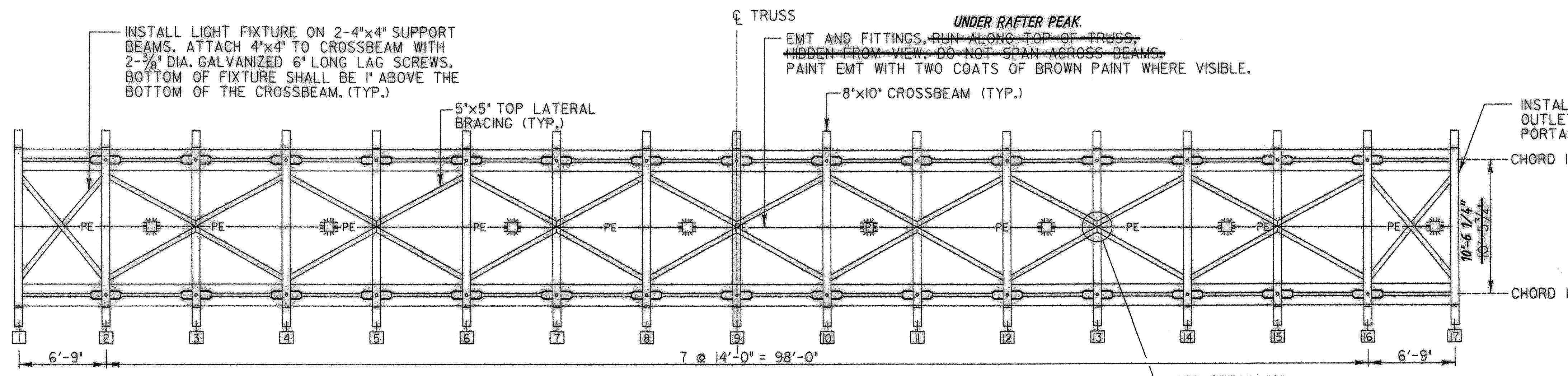
**PIER 3 SOUTH ELEVATION**  $\Delta$   
SCALE 1/4" = 1'-0"

STATE OF VERMONT  
SEAL OF T. JAMES  
NO. 7030  
Structural  
11/1/03

**HIA**  
consulting engineers  
150 Dow Street - Manchester, NH 03101-2227  
Tel: 603-669-5555 Fax: 603-669-4968  
184 South Willoughby Ave. - Burlington, VT 05401  
Tel: 802-860-0331 Fax: 802-860-6499  
Web: [www.royjetanner.com](http://www.royjetanner.com) E-Mail: [hsp@hita-rh.com](mailto:hsp@hita-rh.com)

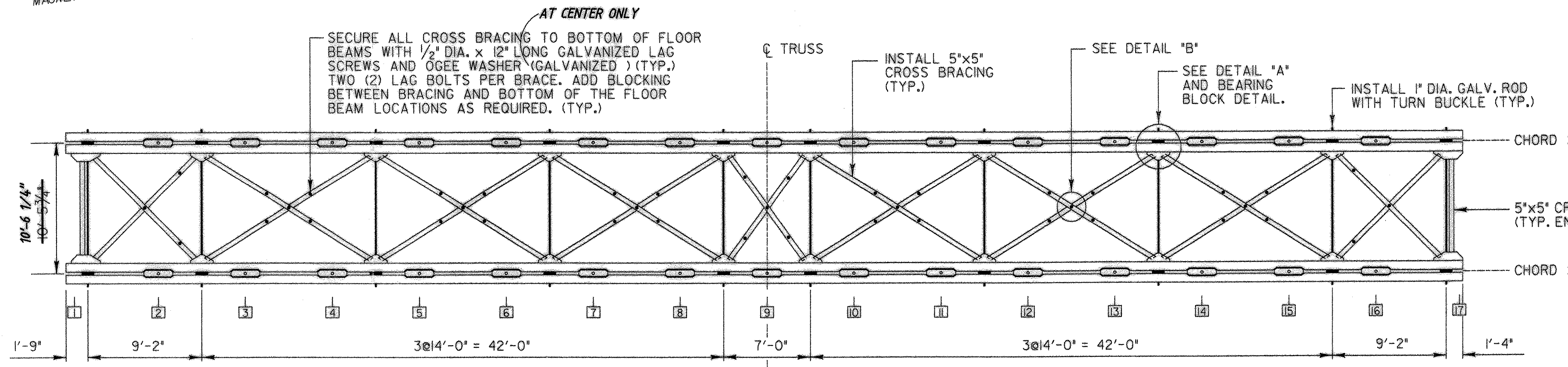
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Town Of	BRIGHTON	Bridge No.	
Highway No.		Log Sta.	
		Surv. Sta.	
<b>BRIGHTON PEDESTRIAN BRIDGE</b>			
<b>PIER ELEVATION &amp; DETAILS</b>			
Designed By	S.T. JAMES	Drawn By	W. DRUDING
Checked By	R.H. DURFEE	Date	MAY 2002
		Bridge Design Supervisor	
PROJECT	BRIGHTON	PROJECT NO.	STP BIKE (14)S
I.G.C. Info.	Z9068PRI.dgn		
Bridge Sheet No.	10	Sheet	10 of 14



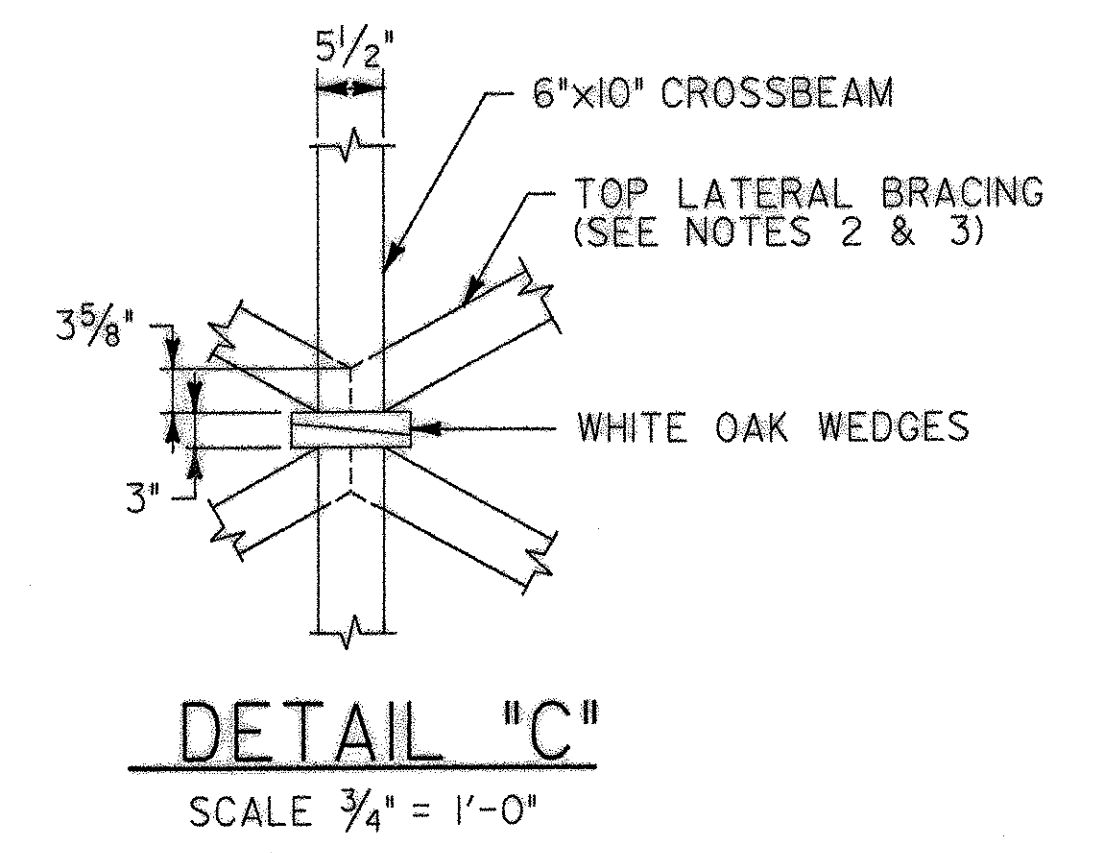
**TOP CHORD LATERAL BRACING PLAN**  $\Delta$

SCALE  $\frac{3}{16}'' = 1'-0''$



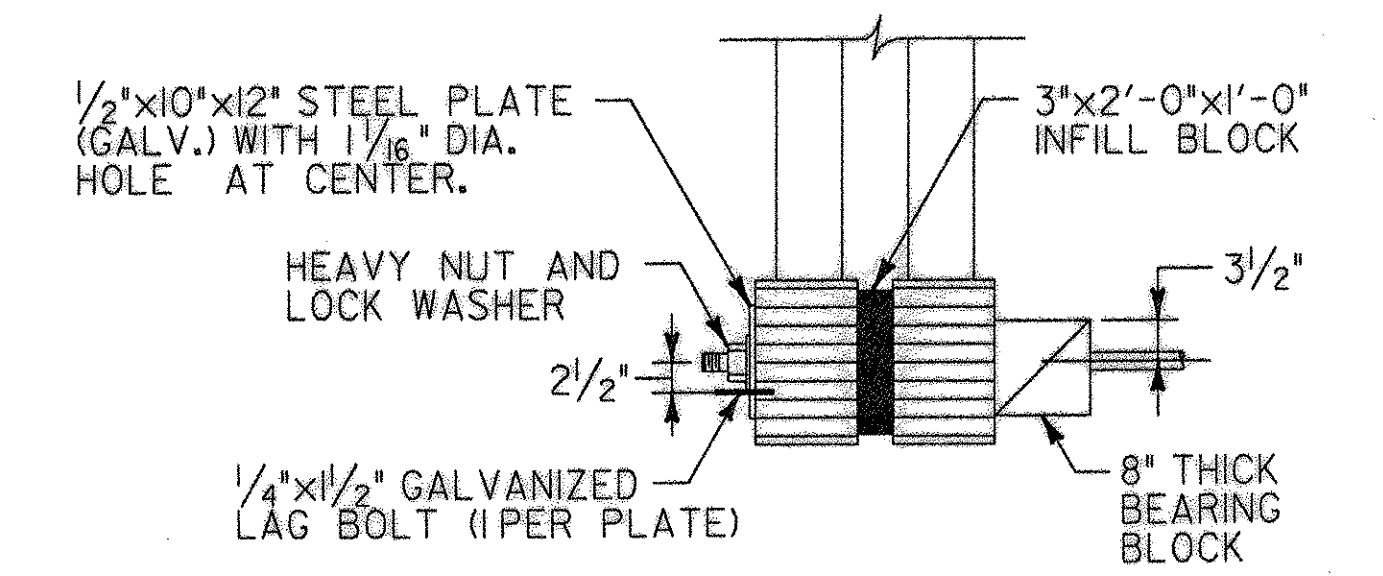
**BOTTOM CHORD LATERAL BRACING PLAN**  $\Delta$

SCALE  $\frac{3}{16}'' = 1'-0''$



**DETAIL "C"**

SCALE  $\frac{3}{4}'' = 1'-0''$



**SECTION B-B**

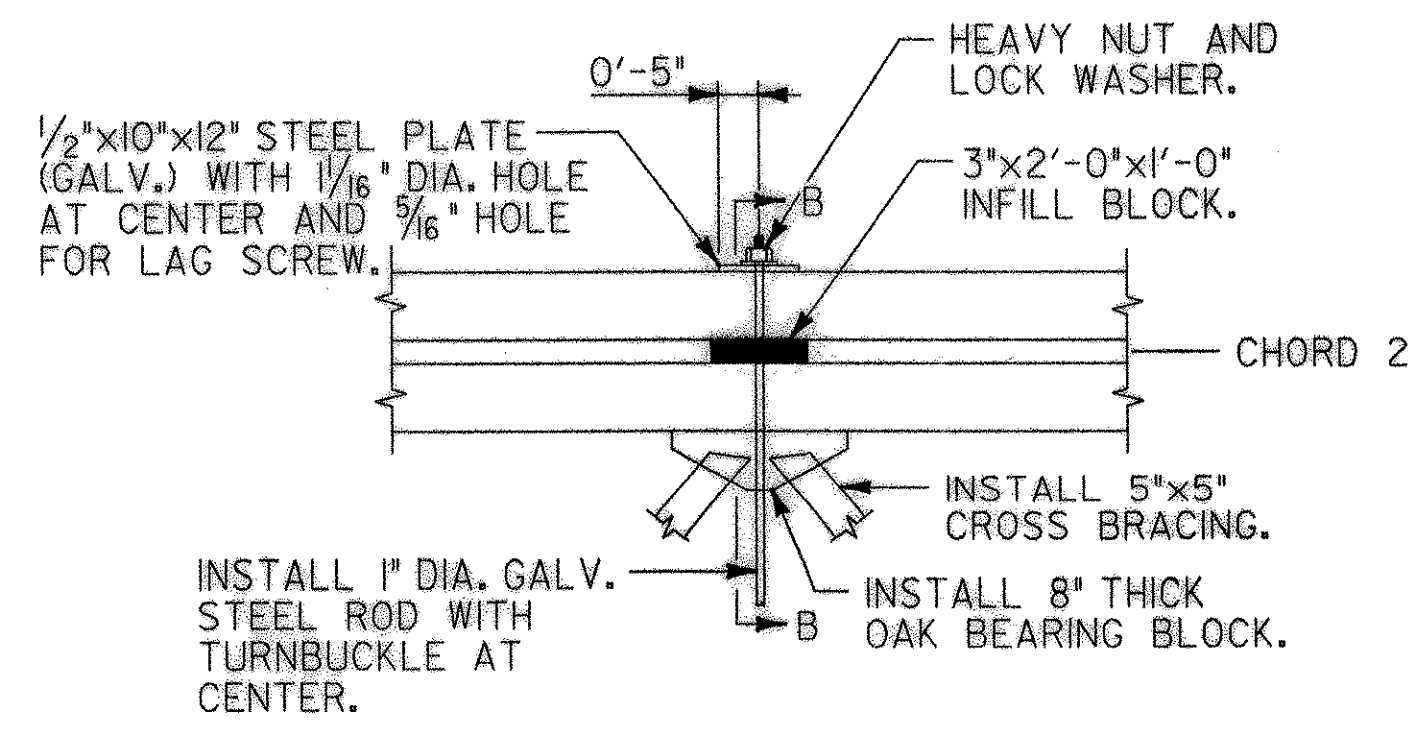
SCALE  $\frac{3}{4}'' = 1'-0''$

**LEGEND**

- $\Delta$  NODE LOCATION (C. OF VERTICAL INTERSECTIONS WITH CHORD 2)
- PE- ELECTRICAL

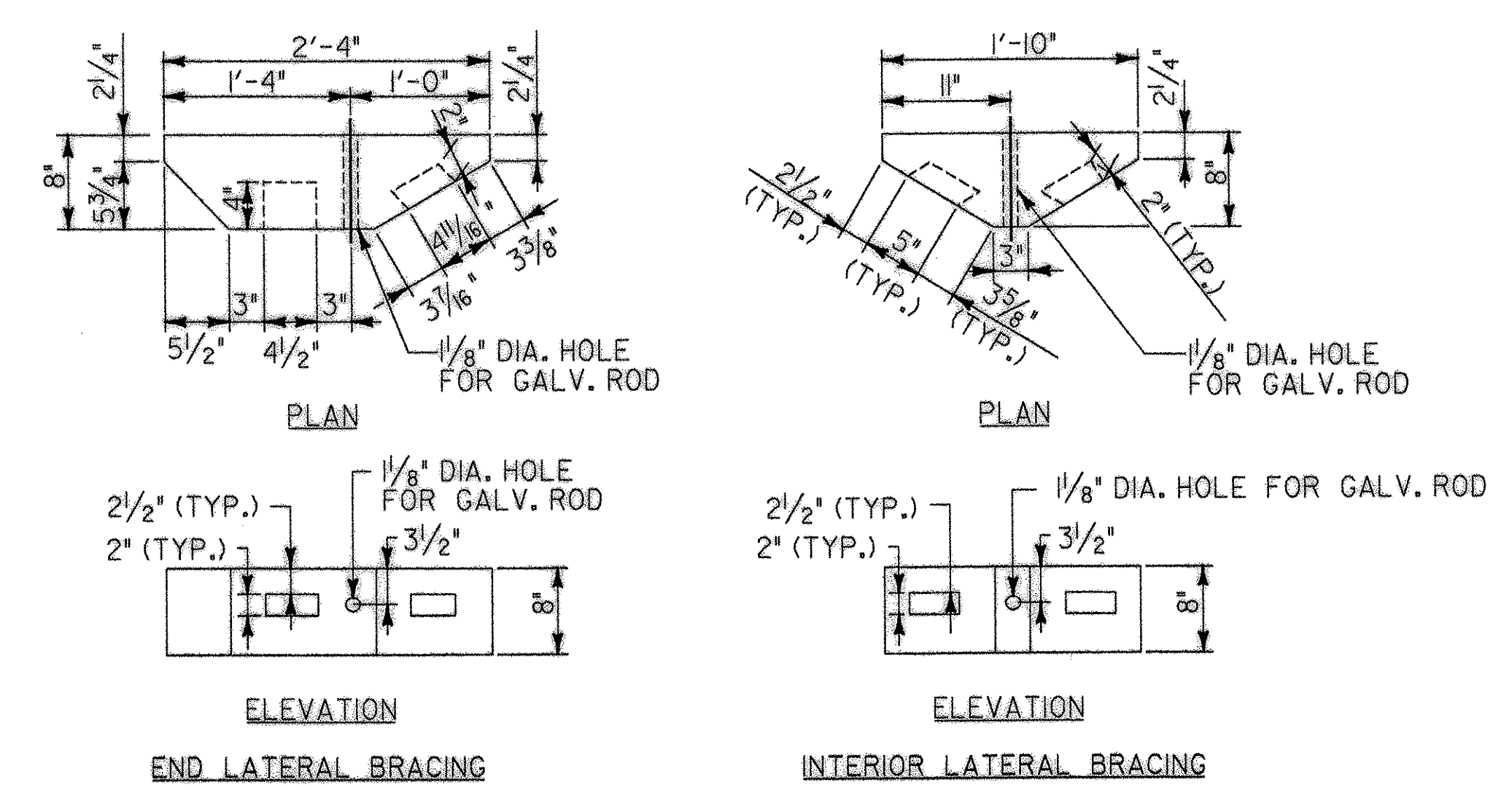
**PLAN NOTES**

1. ALL WORK SHOWN ON THIS DRAWING, WITH THE EXCEPTION OF LIGHTING, STEEL RODS, LAG SCREWS AND PLATES WILL BE PAID FOR UNDER ITEM 522.
2. THE TOP LATERAL BRACING TENONS SHALL BE 3" IN DEPTH AND CENTERED VERTICALLY ON THE CROSSBEAM.
3. THE TOP LATERAL BRACING JOINT NEAR THE TRUSS CHORDS ARE SIMILAR TO DETAIL "C".  $\Delta$



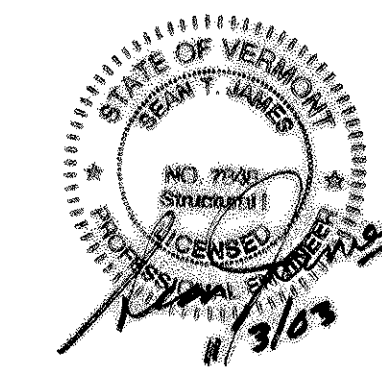
**DETAIL "A"**

SCALE  $\frac{1}{2}'' = 1'-0''$



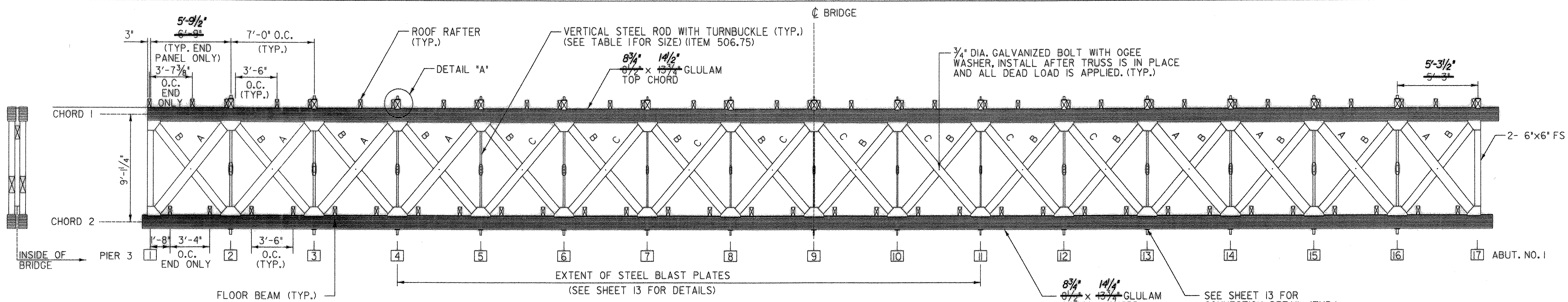
**BEARING BLOCK DETAIL**

SCALE: 1" = 1'-0"



**HTA** Consulting Engineers  
 150 Dow Street - Manchester, NH 03101-227  
 Tel: 603-669-5555 Fax: 603-669-988  
 184 South Willinooski Ave. - Burlington, VT 05401  
 Tel: 802-860-1331 Fax: 802-860-6495  
 Web Page: www.htatanner.com E-Mail: hta@htatanner.com

RECORD COPY REVISIONS		DR. BY JBM	CHK. BY STJ
Town Of	BRIGHTON	Bridge No.	
Highway No.		Log Sta.	
		Surv. Sta.	
<b>BRIGHTON PEDESTRIAN BRIDGE</b>			
<b>LATERAL BRACING &amp; LIGHTING</b>			
Designed By	S.T. JAMES	Drawn By	W. DRUDING
Checked By	R.H. DURFEE	Date	MAY 2002
		Bridge Design Supervisor	Date
PROJECT	BRIGHTON	PROJECT NO.	STP BIKE (14)S
I.G.C. Info.	Z9068LTR.dgn		
Bridge Sheet No.	II	Sheet	II of 14



**TYPICAL TRUSS ELEVATION (WEST TRUSS LOOKING WEST SHOWN) Δ**

SCALE 1/4" = 1'-0"

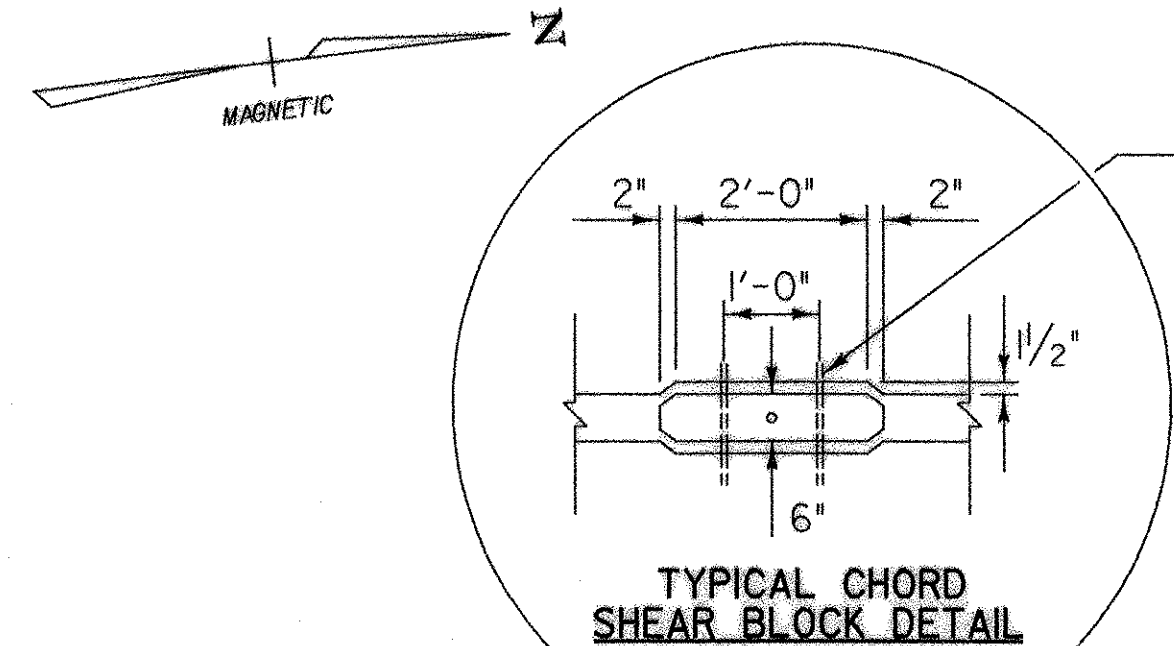
**TABLE 1 - VERTICAL ROD SIZES**

NODES	O.D. (INCH)
2, 3, 15, 16	2 1/4"
4, 5, 6, 12, 13, 14	1 3/4"
7, 8, 9, 10, 11	1"

**TABLE 2 - WEB MEMBER SIZES**

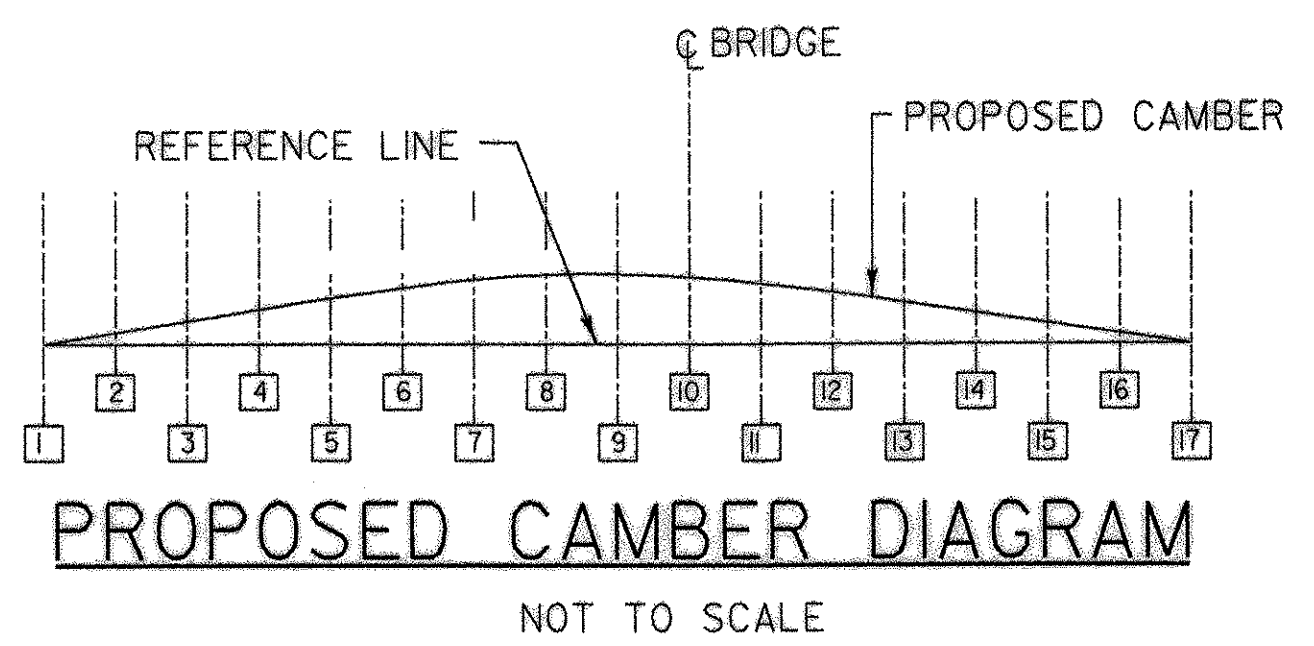
KEY	SIZE
A	2 - 6" x 10" FS
B	1 - 5" x 8" FS
C	2 - 6" x 8" FS

LARGER WEB MEMBER DIAMETER VARIES FROM 1/4" TO 1/8" LARGER THAN SHOWN Δ



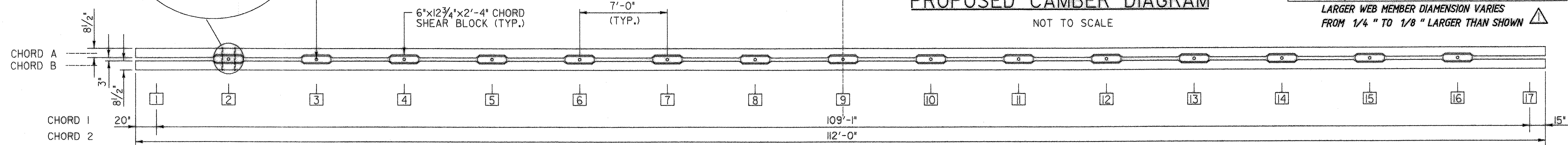
4 - 3/4" DIA. GALVANIZED THROUGH BOLTS WITH Ogee WASHERS. PLACE WASHERS ON OUTSIDE FACE OF CHORDS. SEE DETAIL "A".

HOLE FOR VERTICAL ROD (TYP.) (SEE PLAN NOTE 6)



**PROPOSED CAMBER DIAGRAM**

NOT TO SCALE



**CHORD 1 & 2 PLAN Δ**

SCALE 1/4" = 1'-0"

**PLAN NOTES:**

- ALL WORK SHOWN ON THIS DRAWING OTHER THAN THE STEEL RODS SHALL BE PAID FOR UNDER ITEM 522 UNLESS OTHERWISE NOTED. SEE SHEET 13 FOR DETAILS THAT APPLY TO THIS SHEET.
- WEST TRUSS SHOWN, EAST TRUSS IS SIMILAR, BUT MIRRORED.
- CHORD DIMENSIONS ARE BASED ON 0" CAMBER IN THE TRUSS. CONTRACTOR SHALL INCREASE THE LENGTH OF THE CHORD AND WEB MEMBERS AS REQUIRED TO MEET THE OVERALL DIMENSIONS SHOWN ABOVE.
- ALL TRUSS MEMBERS TO BE SOUTHERN PINE NO. 1 GRADE EXCEPT CHORDS 1 AND 2.
- ALL LAG BOLTS AND THROUGH BOLTS USED IN THE CONSTRUCTION OF THE TRUSS SHALL BE GALVANIZED.
- HOLES IN SHEAR BLOCKS FOR VERTICAL RODS SHALL BE 1/2" IN DIA. LARGER THAN THE ROD. HOLES IN STEEL PLATES FOR VERTICAL RODS SHALL BE 1/16" IN DIA. LARGER THAN THE ROD.

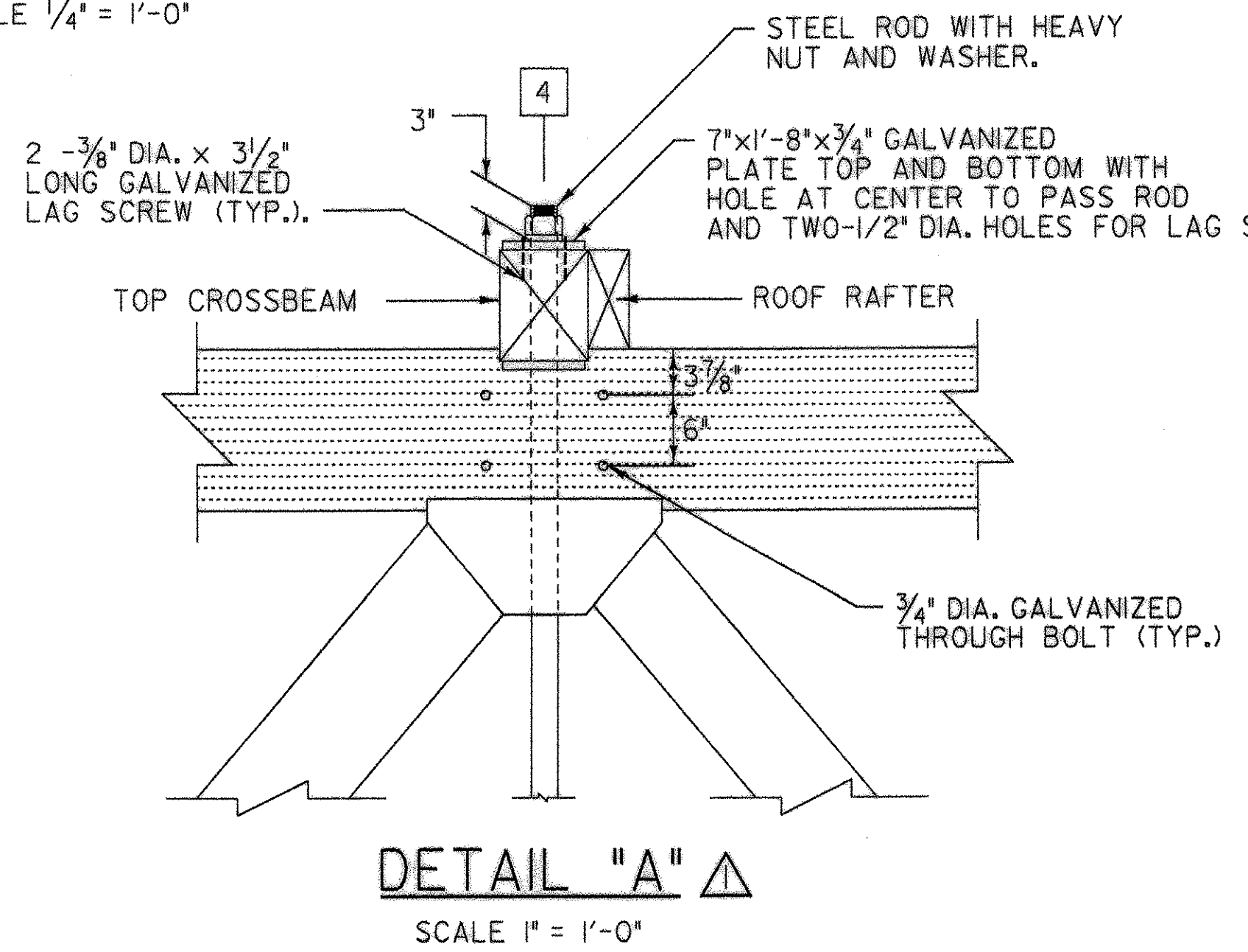
**CAMBER NOTES:**

- THE REFERENCE LINE IS A STRAIGHT LEVEL LINE CONNECTING POINTS LOCATED AT THE TOP OF CHORD 2.
- PROPOSED TRUSS CAMBER IS GIVEN AT NODE POINTS AT THE TOP OF CHORD 2. ALL VALUES ARE MEASURED FROM THE REFERENCE LINE AS SHOWN ON THE CAMBER DIAGRAM.
- CAMBER SHOWN SHALL BE BUILT INTO EACH TRUSS IN A HORIZONTAL POSITION. SOME LOSSES WILL OCCUR UPON ERECTION OF THE BRIDGE DUE TO VERTICAL DEAD LOADS.

**PROPOSED TRUSS CAMBER Δ**

NODES	(1)			(2)			
	WEST	EAST	WEST	EAST	WEST	EAST	
1	0.0	0.00	0.00	10	9.8	7.44	6.72
2	1.9	0.48	1.68	11	9.3	7.20	5.88
3	3.8	1.68	3.24	12	8.3	6.48	5.16
4	5.6	3.12	4.56	13	7.1	5.40	3.84
5	7.1	4.32	5.64	14	5.6	3.96	2.88
6	8.3	5.52	6.60	15	3.8	2.64	1.44
7	9.3	6.48	7.20	16	1.9	1.20	0.12
8	9.8	6.96	7.20	17	0.0	0.00	0.00
9	10.0	7.20	7.20				

- CONSTRUCTED CAMBER IN INCHES PRIOR TO ERECTION OF THE BRIDGE AND APPLICATION OF DEAD LOAD IN INCHES.
- IN PLACE CAMBER OF COMPLETED BRIDGE IN INCHES TAKEN 9/23/03.

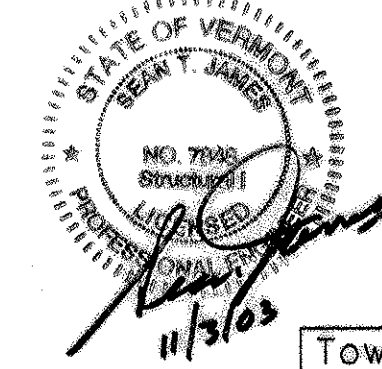


**DETAIL "A" Δ**

SCALE 1" = 1'-0"

**LEGEND**

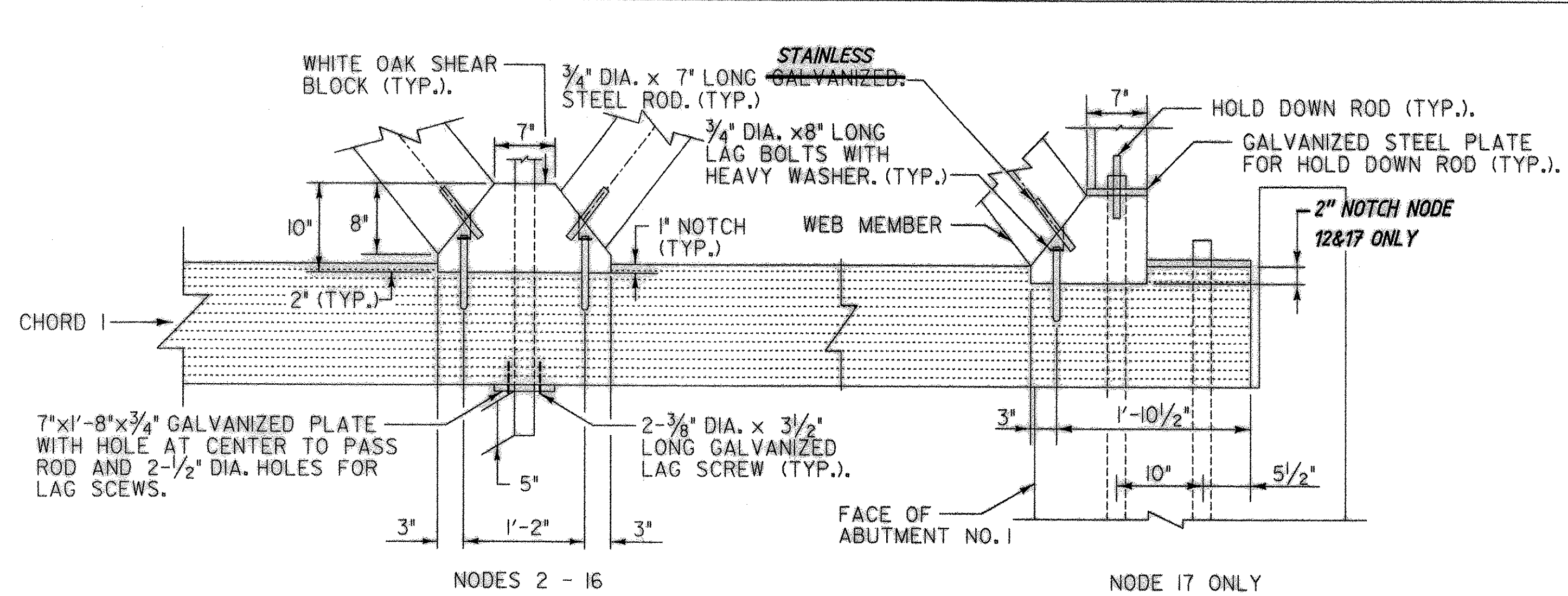
- NODE LOCATION (Q OF VERTICAL TRUSS MEMBER)
- FS FULL SAWN



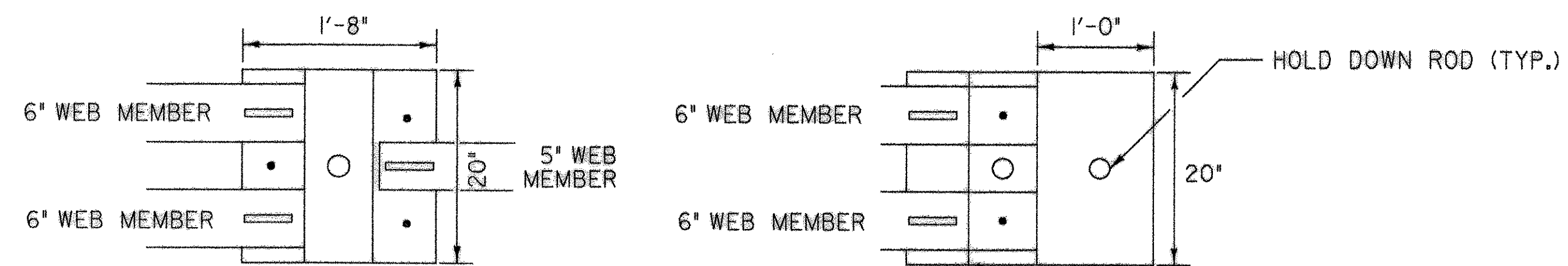
**RECORD COPY REVISIONS**

DR BY	CHK BY
JBM	STJ

Town Of	BRIGHTON	Bridge No.	
Highway No.		Log Sta.	
<b>BRIGHTON PEDESTRIAN BRIDGE</b>			
<b>TRUSS ELEVATION &amp; DETAILS</b>			
Designed By	S.T. JAMES	Drawn By	W. DRUDING
Checked By	R.H. DURFEE	Date	MAY 2002
PROJECT	BRIGHTON	PROJECT NO.	STP BIKE (14)S
I.G.C. Info.	Z9068TR.dgn	Bridge Sheet No.	12
		Sheet	12 of 14



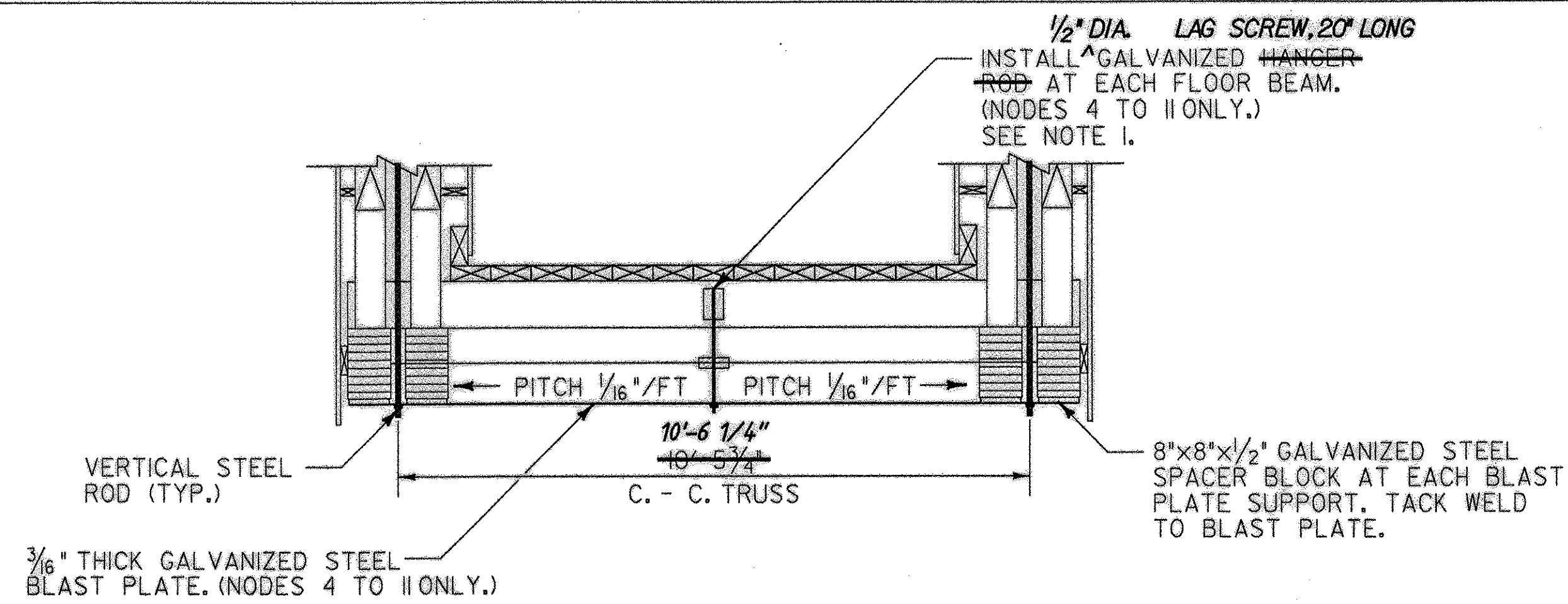
ELEVATION VIEW  $\Delta$



PLAN VIEW  $\Delta$

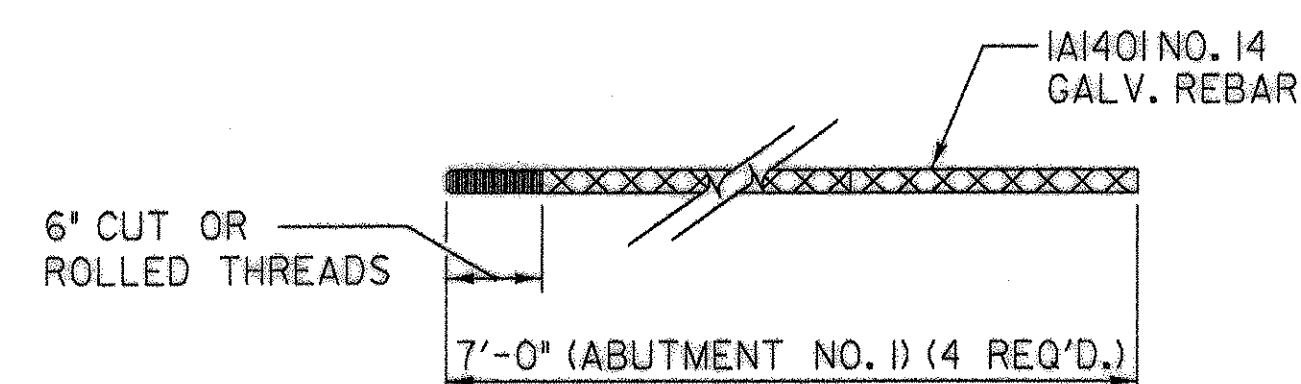
TYPICAL CHORD BEARING BLOCK

SCALE: 1" = 1'-0"



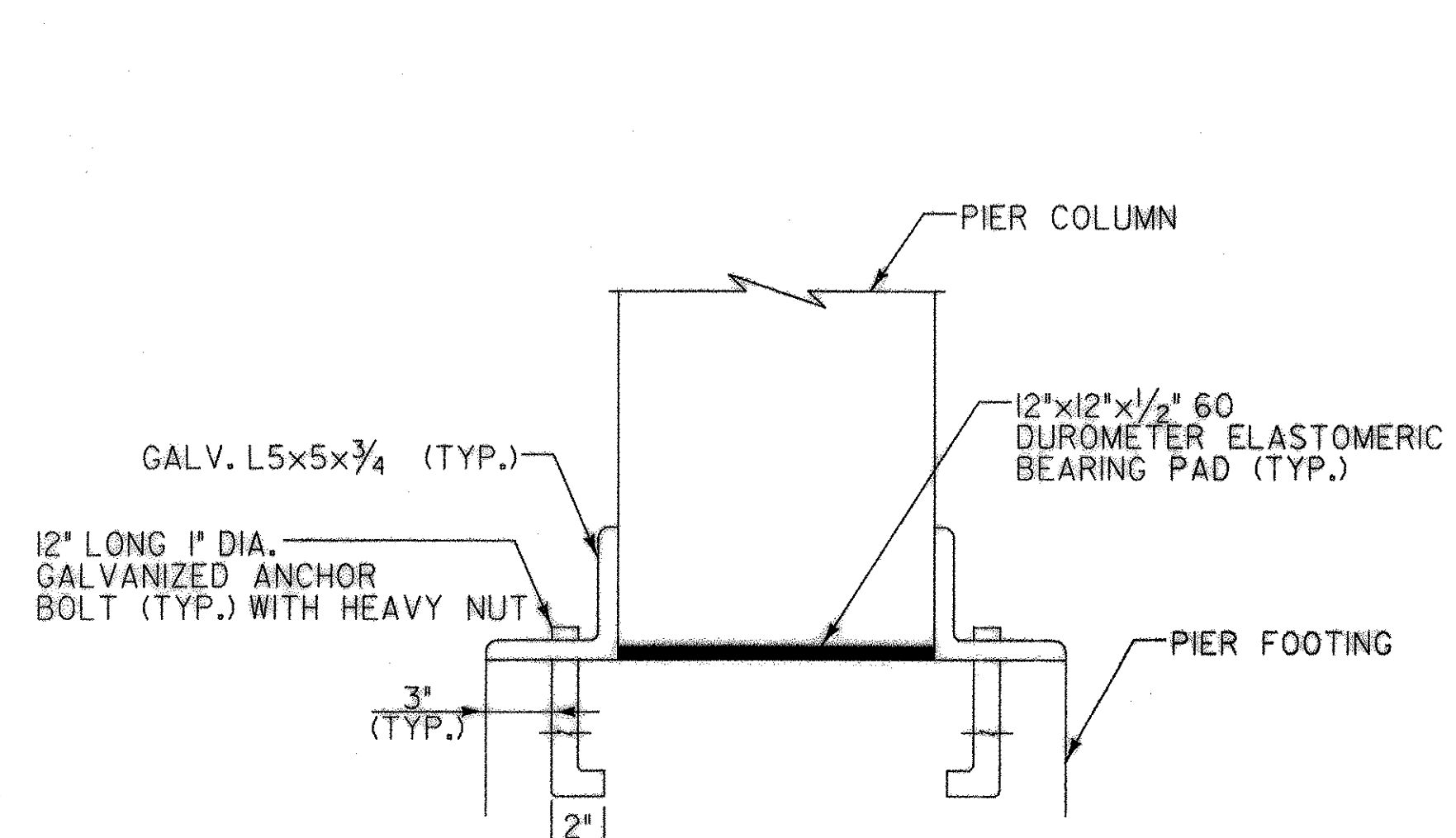
TRUSS SECTION AT BLAST PLATES  $\Delta$

SCALE: 1/2" = 1'-0"



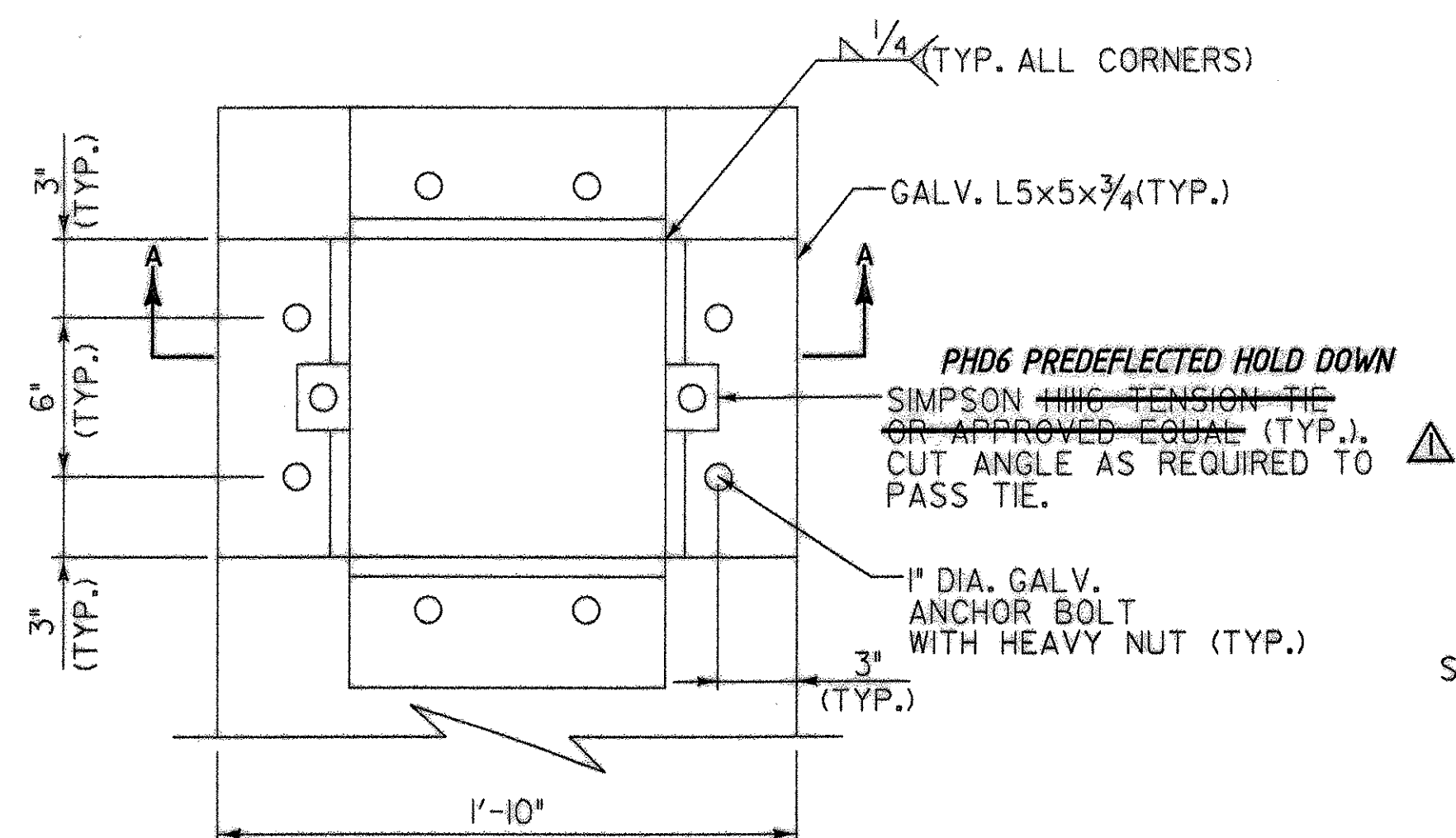
TYPICAL HOLD DOWN ROD (ITEM 506.75)

SCALE: 1" = 1'-0"



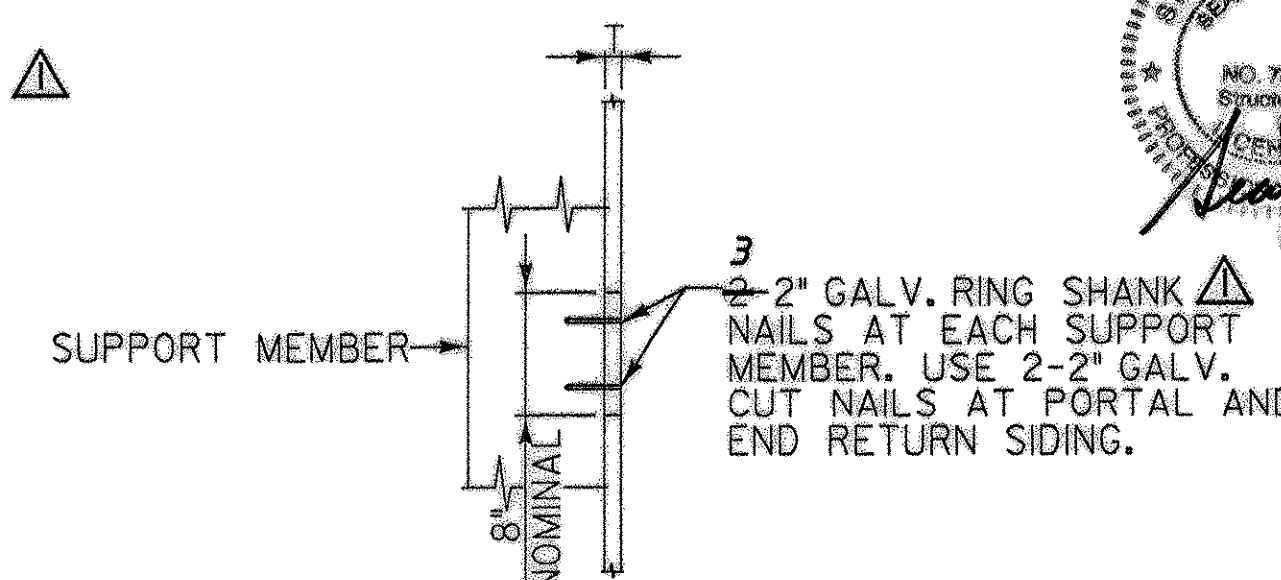
SECTION A-A

SCALE: 2" = 1'-0"



PIER COLUMN-FOOTING PEDESTAL CONNECTION

SCALE: 2" = 1'-0"



SIDING DETAIL

SCALE: 1" = 1'-0"

PLAN NOTES:

- EACH BLAST PLATE HANGER ROD AND CONNECTION SHALL HAVE A MINIMUM ALLOWABLE TENSION CAPACITY OF 150 POUNDS. PROVIDE MANUFACTURERS CUT SHEET OR CALCULATIONS TO THE ENGINEER FOR REVIEW AND APPROVAL.

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**HTA**  
 consulting engineers

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 OR BY JBM  
 CHK BY STJ

Town Of	BRIGHTON	Bridge No.	
Highway No.		Log Sta.	
BRIGHTON PEDESTRIAN BRIDGE		Surv. Sta.	
STRUCTURAL DETAILS			
Designed By	S.T. JAMES	Drawn By	W. DRUDING
Checked By	R.H. DURFEE	Date	MAY 2002
PROJECT		PROJECT NO.	
BRIGHTON		STP BIKE (14)S	
I.G.C. Info.		Z9068TR2.dgn	
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